BBMP

BRUHAT BENGALURU MAHANAGARA PALIKE

RR NAGARADIVISION

DETAILED PROJECT REPORT

NAME OF WORK: COMPREHENSIVE DEVELOPMENT OF ROADS & DRAINS IN SUBHASH PLAY GROUND, SACHIDANANDA NAGAR, BALDWIN SCHOOL, CRAZY PARK, BEML LAYOUT, DWARAKA WEST, DWARAKA EAST, AND SURROUNDING AREAS IN W NO.160 UNDER PACKAGE- 2022-23 RRN-DIV-(09).

ESTIMATE COST: 1350.00 LAKHS

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001: 2015 Certified Company

NABL Accredited As Per ISO/IEC: 17025:2005 Laboratory

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Name of Work: Comprehensive Development of Roads & Drains in Subhash Play Ground, Sachidananda Nagar, Baldwin School, Crazy park, BEML layout, Dwaraka West, Dwaraka East, and Surrounding areas in W No.160 under PACKAGE- 2022-23 RRN-DIV-(09).

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Chapter-1

INTRODUCTION

1.1 GENERAL

Bangalore is the capital of Karnataka. It is located on the Deccan Plateau in the south- eastern part of Karnataka. Bangalore is India's third most populous city and fifth-most populous urban agglomeration. Bangalore is well known as a hub for India's Information Technology sector. It is among the top 10 preferred entrepreneurial locations in the world Bangalore is sometimes referred to as the "Silicon Valley of India" (or "IT capital of India") because of its role as the nation's leading information technology (IT) exporter. Indian technological organizations ISRO, Infosys, Wipro and HAL are headquartered in the city. A demographically diverse city, Bangalore is the second fastest-growing major metropolis in India.

1.2 GEOGRAPHY

Bangalore lies in the southeast of the South Indian state of Karnataka. It is in the heart of the Mysore Plateau (a region of the larger Precambrian Deccan) at an average elevation of 900 m (2,953 Ft.).It is located at 12.97°N 77.56°E and covers an area of 741 km2 (286 sq mi).The majority of the city of Bangalore lies in the Bangalore Urban district of Karnataka and the surrounding rural areas are a part of the Bangalore Rural district. The topology of Bangalore is flat except for a central ridge running NNE-SSW. The highest point is Vidyaranyapura Doddabettahalli, which is 962 m (3,156 ft) and lies on this ridge. No major rivers run through the city, though the Arkavathi and South Pennar cross paths at the Nandi Hills, 60 km (37 mi.) to the north. River Vrishabhavathi, a minor tributary of the Arkavathi, arises within the city a Basavanagudi and flows through the city. The rivers Arkavathi and Vrishabhavathi together carr much of Bangalore's sewage. A sewerage system, constructed in 1922, covers 215 km² (133 mi²) c the city and connects with five sewage treatment centers located in the periphery of Bangalor.

1.3 CIVIC ADMINISTRATION

The **Bruhat Bengaluru Mahanagara Palike (BBMP)**, is the administrative body responsible civic amenities and some infrastructural assets of the Greater Bangalore metropolitan area.[1] It is the

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urth largest Municipal Corporation in India being responsible for a population of 6.8 million in an ea of 741 km^2. Its boundaries have expanded more than 10 times over the last six decades. Its roles nd responsibilities include the "orderly development of the city" — zoning and building regulations, ealth, hygiene, licensing, trade and education, as well as quality of life issues such as public open pace, water bodies, parks and greenery. The BBMP represents the third level of government (the Central Government and State Government being the first two levels). BBMP is run by a city council composed of elected representatives, called "corporators", one from each of the wards (localities) of the city

1.3.1 HISTORY

The history of municipal governance of Bangalore dates back to 27 March 1862, when nine leading citizens of the old city formed a Municipal Board under the Improvement of Towns Act of 1850 with a similar Municipal Board was also formed in the newer Cantonment area.[3] The two boards were legalised in 1881, and functioned as two independent bodies called the Bangalore City Municipality and the Bangalore Civil and Military Station Municipality (Cantonment). The following year, half of the municipal councillors were permitted to be elected; property tax was introduced and greater powers given over police and local improvement.

After Indian independence, the two Municipal Boards were merged to form the Corporation of the City of Bangalore in 1949, under the Bangalore City Corporation Act. The corporation then consisted of 70 elected representatives and 50 electoral divisions and the office of Mayor introduced for the first time. The first elections were held in 1950.

The name of the council changed — first to Bangalore City Corporation (BCC) and then to Bangalore Mahanagara Palike

In 1991 the BMP expanded to include 87 wards in 1991 and 100 wards in 1995. The council als included 40 additional members drawn from the parliament and state legislature.

In November 2006, the BMP Council was dissolved by the state government upon the completion its five year term. In January 2007, the Karnataka Government issued a notification to merge 1 wards of the erstwhile Bangalore Mahanagara Palike with seven City Municipal Councils (CMC one Town Municipal Council (TMC) and 111 villages around the city to form a single administrat area.[4] The process was completed by April 2007 and the body was renamed 'Bruhat Banga Mahanagara Palike'(Greater Bangalore Municipal Corporation).

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3.2 ZONES

BMP is divided into Eight zones, for the ease of administration each administered by a Zonal ommissioner:

1. Yelahanka Zone
2. Dasarahalli Zone
3. South Zone
4. Bommanahalli Zone
5. Mahadevapura Zone
6. Rajarajeswari Nagar Zone
7. West Zone
8. East Zone

Every zone has a Joint Commissioner, who is answerable to the BBMP commissioner. The decentralization hasn't been very effective in addressing the problems in administration. The end of 2013 saw discussions in various circles about dividing BBMP into more parts.

1.3.3 ROLES AND RESPONSIBILITIES

The Bruhat Bangalore Mahanagara Palike is the fourth largest Municipal Corporation in India, after the city corporations that administer Mumbai, Delhi and Chennai. The BBMP is responsible for infrastructural assets of the Greater Bangalore Metropolitan area, spread across 741 km^2, with a population of 6.8 million.

Its roles and responsibilities include the "orderly development of the city "zoning and building regulations, health, hygiene, licensing, trade and education, as well as quality of life issues such as lung spaces, water bodies, parks and greenery.

1.3.4 *Project Background*

Bruhat Bengaluru Mahanagara Palike (BBMP) is desirous of obtaining consultancy services for the preparation of Design Report for roads & Drains. BBMP has taken up a programme of Comprehensi Development of Roads & Drains in Subhash Play Ground, Sachidananda Nagar, Baldwin School, Crazy park, BEML layout, Dwaraka West, Dwaraka East, and Surrounding areas in W No.160 under PACKAGE- 2022-23 RRN-DIV-(09).The growth in vehicular traffic in this area and associa activities necessitates the widening of the project road to adequate width , since the ward and area located is ongoing development with UGD and Water line the development is most necessary with road and Drainage.

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M/S **Civil Quality Consultants & Engineers** has been appointed as a consultant to perform the rvices. This Report deals with the approach, methodology, investigation details of project roads and e role of Consultants.

.3.5 Loaction and Teerain Condition

The Project road lies under Rajarajeshwari Nagara Constituency Ward 160 Under RR Nagara Sub Division

Estimate Name: Comprehensive Development of Roads & Drains in Subhash Play Ground, Sachidananda Nagar, Baldwin School, Crazy park, BEML layout, Dwaraka West, Dwaraka East, and Surrounding areas in W No.160 under PACKAGE- 2022-23 RRN-DIV-(09).

Project Cost Rs.1350.00 lakhs

Above Details Provided By Concern Assistant Engineer ,Assistant Executive Engineer & Executive Engineer BBMP RR Nagara Division.

OBJECTIVES

The Objectiveof the Consultancy services is to recommend an Optimal proposal for implementatio which comprises of:

- Road Inventory as per IRC SP 19
- Flexible Pavement As per IRC 37-2018
- Rigid Pavement Design As per IRC SP 62-2014
- Prepare Bill of Quantities and Estimate based on Current Schedule Rate of PWD Banga Circle 2021-22

Note: Estimate and Design of Roads, Drain are Prepared as told By Concern AE, AEE and EE

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Chapter -2

INVESTIGATION & SURVEYS

.1 GENERAL

site investigation is the process of the collection of information, the appraisal of data, assessment ite investigation is carried out in order to enable a geotechnical and geo-environmental assessment of ie road conditions and analysis of the engineering and environmental considerations related to the roposed development. Subsurface condition at a road may be relatively uniform or extremely variable nd will largely determine the complexity of the problems to be faced in both design and construction. The subsurface investigation must therefore be of sufficient extent to provide enough information for a horough understanding of the interaction of proposed work

The basic aim of field investigation and analysis is to identify technically and economically feasible solution to improvements / widening of the existing road, if any. These improvements include the formulation of suitable cross section through widening / improvements to the existing pavement drain system, footpath and facilities to the road users. The various engineering surveys/investigations of the road sections include

- Reconnaissance Survey
- Visual Topographical Survey
- Road Inventory Survey
- Pavement Condition Survey.
- Road signs, safety devices
-

2 .1.1 RECONNAISSANCE SURVEY

Reconnaissance Survey of the road, considered for improvements, has been carried out to identify th general condition of roads, drains, culverts and bridges for further surveys/investigations, understand kind of establishments along the stretches of roads and to work out land acquisiti scheme. Making use of the observations / data collected during reconnaissance survey, detail schedule for surveys/ investigations required for the project has been finalized.

2.1.2 VISUAL TOPOGRAPHICAL SURVEYS

A Topographic Survey is a survey that gathers data about the elevation of points and presents the contour lines on a plot. The purpose of a topographic survey is to collect survey data about the na and man-made features of the land, as well as its elevations. Topographic maps are used to elevations and grading features for architects, engineers, and building contractors Topographic Su

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: been conducted all along the corridor by physically measuring the Road Width, Footpath Width, ain Width, and Alignment of Road and with the aid of Google Maps.

1.3 Road Inventory Survey

detailed inventory and condition survey of road sections has been carried out by making use of well ructured inventory data format. It was compiled in tabular form, developed using Excel computer)ftware. Various data collected during the road inventory broadly include

- ✓ Type of terrain.
- ✓ Land use.
- ✓ Carriageway width.
- ✓ Type of surfacing.
- ✓ Shoulder, Median, Drain (Tertiary / Secondary), Footpath-type and width.
- ✓ Road Geometry.
- ✓ Road Furniture.
- ✓ Salient Buildings & Structures.
- ✓ Road Intersection(s) and their details.
- ✓ Land width (ROW).
- ✓ Culverts, bridges and other structures (type, size, span arrangement and location).
- ✓ General drainage conditions.

2.1.4 PAVEMENT CONDITION SURVEY

The visual survey is conducted and various details of the existing pavement are recorded.

- ✓ Pavement condition (extent of potholes, cracks, rutting, evenness, etc.)
- ✓ Shoulder condition (surface, potholes, height above or below carriageway, evenness)
- ✓ Side drain (type, condition)
- ✓ To assess the condition and strength data for developing improvement proposals and relat designs

2.1.5 Road signs, safety devices

Road signs give information about the road conditions ahead, provide instructions to be followed a major crossroads or junctions, warn or guide drivers, and ensure proper functioning of road tra Being unaware of road signs is akin to throwing caution to the wind. It can lead to loss of life property The provision of Road Signs, Pavement Markings, Safety Barriers, Railings, Deline: Chevron Markings, and Traffic Attenuators are made in the Detailed Estimate.

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Chapter -3

DESIGN STANDARD & SPECIFICATION

ning and design of roads & CD structures, pedestrian facilities and street furniture are essentially d on the IRC standards and MoRT&H specifications. Whenever, the codes / Standards are silent ome of the aspects, the same has been planned / designed based on Sound engineering practices. ign standards relevant to the project road along with the Broad list of design parameters and the vant IRC codes/specifications have been detailed

No	Design parameters	Reference Code
	Geometric Designs Standard	As per IRC:86-2018
	Road Furniture ▪ Road Markings ▪ Road Signs	As per IRC:35-1997 As per IRC:67-2012
	Road Capacity	As per IRC:106-1990
	Pavement Design	As per IRC:37-2018
	Overlay Design	As per IRC:81-1997
	CC Pavement(Rigid)	As per IRC: 62-2014
7	Road Drainage	As per IRC: SP: 50-2013
8	Culverts	As per relevant IRC codes and Morth

The project road section passes through plain terrain. Design standards (as appropriate) have bee further elaborated under the following heads:

- Geometric Design
- Pavement Design
- Rigid Pavement Design
- Overlay Design
- Drainage
- Road Furniture and Appurtenances
- Bridges and CD Structures

3.1 Design Standards Related to Geometric Design

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Design standards related to road geometric along with the suggested design values/ standards and recommended values based on site conditions and data analysis are detailed in table

Design parameters	Design values
Design Speed	Design Speed considered is 60 kmph
Geometric Design Standards Carriage width	Two lane carriage way
Camber (Bi directional)	2.5% for paved carriage way
Super elevation	Limited to 4%
Footpath	Minimum width 1.8m
Kerb	Barrier/ semi barrier/ Mountable (Barrier type recommended)
Extra Widening at Curves	Nil for Radius above 300m
Gradient	Maximum Gradient-4.0 % (1 in 25) Minimum Gradient for Drainage - 0.5 % (desirable minimum) & 0.3 % (Absolute minimum).

.2 Design Standards Related to Pavement Design

Design standards related to Pavement design are essentially based on the guidelinesgiven in IRC: 37 - 2018 "Tentative Guidelines for the Design of Flexible Pavements"The suggested design values / standards and recommended values based on site conditionsand data analysis are detailed in Table and are adapted in the design.

Sl No	Design parameters	Design values
1	Pavement design	RC: 37 2018 Tentative Guidelines for the Design of Flexible Pavements
2	Initial Traffic	In terms of CVPD, vehicles weighing more than 3 ton
3	Traffic growth rate	5%
4	Design Life	10 years
5	Vehicle damage factor	1.5 to 4.5
6	Soil Characteristics	CBR Value

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Design Standards Related to Rigid Pavement Design

ign standards related to Rigid Oavement are essentially based on the guidelines givenIn IRC: 62 – 4"Guidelines for Strengthening of Rigid Pavements Using California Bearing Ratio", Penetration istance of soil and aggregate Properties

No	Design parameters	Design values
	Pavement design	IRC: 62- 2014 Tentative Guidelines for the Design of Rigid Pavements
	Initial Traffic	In terms of CVPD, vehicles weighing more than 3 ton
	Reliability	85%
	Design Life	5 to 10 years
	Equivalency factors	1.22
	Soil Characteristics	CBR Value

3.4 Design Standards Related to Overlay Design

esign standards related to overlay design are essentially based on the guidelines givenIn IRC: 81 - 997 "Guidelines for Strengthening of Flexible Road Pavements UsingBenkelman Beam Deflection echnique". The suggested design values / standards and Recommended values based on site onditions and data analysis are detailed in Table and are adapted in the design

l No	Design parameters	Design values
	Overlay Design	RC: 81-1997 "Guidelines for Strengthening of Flexible Road Pavements Using Benkelman BeamDeflection Technique"
	Design Life	10 years
3	Correction Factors	Temperature Correction Factor Correction for Seasonal Variation (inclusive of correction for moisture content, soil type and rainfall)
4	Minimum Thickness	From structural considerations recommended minimum bituminous overlay thickness is 50 mm BDM(minimum) or 50mm BM (as required) +40mm BC
5	Wearing Course Material	Bituminous Concrete with Crumb Rubber Modified Bitumen

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Design Standards Related to Road Drainage

nage of water from pavement surface is of paramount importance as far as preserving theAssets ted by investing huge funds in addition to maintaining the structural soundness and Frictional :iency of the road. Design standards related to road drainage are essentially based on the Deadlines :n in IRC: SP: 42-1994 "Guidelines on Road Drainage" and in IRC: SP: 50 – 2013 delines on an Drainage". The suggested design values / standards are detailed in Table

No	Design parameters	Design values
	Camber	1.7-2 5 % (bi-directional) for carriageway (camber of 3% is adopted)
	Longitudinal Gradient	Minimum 0 3-05% for satisfactory drainage
	Drain Type	Cast in situ RCC box drain with Precast RCC cover slab RCC box culverts across cross roads.
	For Existing Drains	Desilting and Rectification of Damaged Portion

3.6 Design Standards Related to Road Furniture and Appurtenances

Jtility and importance of the road are greatly enhanced by installing road furniture and appurtenances it appropriate locations along the project road, which ensures improved road safety. Planning and lesign of road furniture and appurtenances are as per the guidelines stipulated in IRC. Detailing of :ach of these components has been done so as to integrate the same with the road improvement scheme. The suggested design values / standards are detailed in table

Sl No	Design parameters	Design values
1	Road Markings	IRC:35-1997 "Code of Practice for Road Markings
2	Road Signs	IRC: 67-2012 "Code of Practice for Road Signs"

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tailed Brief Note of Work

imate Name: Comprehensive Development of Roads & Drains in Subhash Play Ground, hidananda Nagar, Baldwin School, Crazy park, BEML layout, Dwaraka West, Dwaraka East, Surrounding areas in W No.160 under PACKAGE- 2022-23 RRN-DIV-(09).

nstituency : Rajarajeshwari Nagara Constituency.

ne : R.R.Nagar Zone.

vision: RR Nagara Division.

ıb Division: RR Nagara Sub Division.

elow Roads identified and Shown by concern Assistant Engineer ward no.160.

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SI NO.	ROAD NAME AND ROAD ID	DRAIN						
		TYPE OF DRAIN	PROVISION	LENGTH	TYPE OF ROAD	PROVISION	LENGTH	AVERAGE WIDTH
1	Sri Lakshmi Marashima Swamy Prassanna Road(W0790)	-	-	-	MUD	ASPHALT	230	5.8
2	R.R Chats Road(W1053)	-	-	-	MUD	ASPHALT	96	8.5
3	Banupriya Nilaya Road(W1051)	-	-	-	MUD	ASPHALT	37	6.7
4	Vinayaka Margh Road(W0672)	-	-	-	MUD	ASPHALT	269	5.8
5	Suragi Home Road(W0792)	-	-	-	MUD	ASPHALT	336	6.8
6	Krushi market Road(W0935)	-	-	-	MUD	ASPHALT	214	7.2
7	Cross Road-1(W0678 & W0949)	-	-	-	MUD	ASPHALT	205.5	6.6
8	Venkateshwara Prassanna Road	-	-	-	MUD	ASPHALT	31.5	5
9	Cross Road-2	-	-	-	MUD	ASPHALT	29	4.3
10	Sri Skhetra MadhaNatti Nilaya Road(	-	-	-	MUD	ASPHALT	74	5.7
11	venkatadri Nilaya Road(W0939)	-	-	-	MUD	ASPHALT	103	5.3
12	Cross Road-3(W0937)	-	-	-	MUD	ASPHALT	40	5.4
13	W1303	-	-	-	ASPHALT	Bm,BC	255	7.3

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NAME OF WORK :-Comprehensive Development of Roads & Drains In Sachivalaya Nagar

SI NO.	ROAD NAME AND ROAD ID	DRAIN			ROAD			
		TYPE OF DRAIN	PROVISION	LENGTH	TYPE OF ROAD	PROVISION	LENGTH	AVERAGE WIDTH
1	Sri Sreerastu Glass & Plywoods Road(W1005)	NO DRAIN	NRCC	270	SCARIFY	ASPHALT	290	15.6
2	Sri Kalabairava Nilaya Road(W0762)	NO DRAIN	NRCC	110	MUD	ASPHALT	110	6.3
3	Sri Muthathiraya Swamy Nilaya road	NO DRAIN	NS(NRCC)	40	MUD	ASPHALT	40	3.4
4	OPP to Sri Kalabairaveshwara Nilaya Road(W0758)	NO DRAIN	NRCC	122	SCARIFY	ASPHALT	122	5.6
5	Sri Maruthi Nilaya Road(W0764)	NO DRAIN	NRCC	170	SCARIFY	ASPHALT	170	10.1
6	Samruddhi Nilaya Road(W1005)	NO DRAIN	NRCC	170	SCARIFY	ASPHALT	170	10.5
7	Sri Lakshmi Venkateshwara Prassanna Road(W0740)	NO DRAIN	NRCC	205	SCARIFY	ASPHALT	205	7.2
8	Indian Oil Petrol Bunk Road(W0738)	SWD DRAIN,OPCS(1.8m),OK	ONE SIDE SS R&R,DESILT+NRCC	121(DESILT),54(NRCC)	ASPHALT(GOOD)	BM,BC	176	7.5
9	T.R.Electricals Road(W0742)	NO DRAIN	NRCC	170	ASPHALT(GOOD)	BM,BC	170	9.7
10	Sri Matha Pithru Nilaya Road(W0999)	NO DRAIN	NRCC	280	ASPHALT(GOOD)	BM,BC	280	7.3
11	Sri Chowdeshwari Nilaya Home Road(W0744)	BSDRAIN,FLAGGING COURSE,OBS,OK	R&R,DESILT	40	ASPHALT(GOOD)	BM,BC	40	4.9
12	U-shape road(W0997,W0746)	BSDRAIN,FLAGGING COURSE,OBS	R&R,DESILT	169	ASPHALT(GOOD)	BM,BC	169	6.2
13	kalabairava Home Road(W0995)	NO DRAIN	NRCC	90	ASPHALT(GOOD)	BM,BC	90	6.6

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14	Vara Nilaya Road(W0995)	NO DRAIN	NS(NRCC)	35	ASPHALT(GOOD)	BM,BC	35	4.9
15	The meat factory Road(W1001)	NO DRAIN	NRCC	235	ASPHALT(GOOD)	BM,BC	235	9.1
16	MRPL Petrol Bunk road(W1003)	NO DRAIN	NRCC	233	ASPHALT(GOOD)	BM,BC	233	8.7
17	Sri Sri RaviShankar Balamandir Primary School(W1019)	BS,DRAIN,FLAGGING COURSE,ORCS	R&R,DESILT	370	NOT NECESSARY	-	-	-

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CRAZY PARK SURROUNDINGS

SI NO.	ROAD NAME AND ROAD ID	DRAIN			ROAD			
		TYPE OF DRAIN	PROVISION	LENGTH	TYPE OF ROAD	PROVISION	LENGTH	AVERAGE WIDTH
1	5th Cross Road(W1041)	NO DRAIN	NRCC	190	NOT NECESSARY	-	-	-
2	Best Club Road(W0778)	NO DRAIN	NRCC	310	NOT NECESSARY	-	-	-
3	4th Cross Road(W1037)	NO DRAIN	NRCC	190	NOT NECESSARY	-	-	-
4	8th main Road(Crazy Park road)(W0882)	NO DRAIN	NRCC	338	NOT NECESSARY	-	-	-
5	OPP to Crazy Park Road(W1067)	NO DRAIN	NRCC	170	NOT NECESSARY	-	-	-
6	2nd Cross Road(W1069)	NO DRAIN	NRCC	225	NOT NECESSARY	-	-	-
7	3rd main road(W0874)	NO DRAIN	NRCC	179	NOT NECESSARY	-	-	-
8	1st 'B' Cross Road(W1161)	NO DRAIN	NRCC	152	NOT NECESSARY	-	-	-
9	1st 'A'Cross Road(W1163)	NO DRAIN	NRCC	149	NOT NECESSARY	-	-	-

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BEML 10th STAGE

SI NO.	ROAD NAME AND ROAD ID	DRAIN			ROAD			
1	Drink & Dine Road(W1227,W0942)	BSDRAIN,FLAGGING	FLAGGING	250	-	-	-	-
2	OPP to Sri Anjaneya Road	NO DRAIN	FLAGGING	120	-	-	-	-
3	2nd Cross Road(W1225)	BSDRAIN,FLAGGING	FLAGGING	220	-	-	-	-
4	1st cross Road(panasonic road)(W1223)	BSDRAIN,FLAGGING	FLAGGING	140	-	-	-	-
5	3rd main road(omkara home road)(W0944)	BSDRAIN,FLAGGING	FLAGGING	180	-	-	-	-
6	Continuty of 3rd main Road(W0948)	NO DRAIN	FLAGGING	30	-	-	-	-
7	4th main road(Kalparuksha Home road)(W0952)	BSDRAIN,FLAGGING	FLAGGING	257	-	-	-	-
8	Post Office Road(4th Main Road)(W0952)	BSDRAIN,FLAGGING	FLAGGING	132.2	-	-	-	-
9	7 Hills pardise road(W1014)	NO DRAIN	FLAGGING	280	-	-	-	-
10	Karishma Classic(W1333)	NO DRAIN	FLAGGING	160	-	-	-	-

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SI NO.	ROAD NAME AND ROAD ID	DRAIN			ROAD			
		TYPE OF DRAIN	PROVISION	LENGTH	TYPE OF ROAD	PROVISION	LENGTH	AVERAGE WIDTH
1	shri veeranjaneya swamy temple Road(w1339)	125 Deck(E),80 RCC (S) (WS),182 OBS (WS),5.8 (CD)	NRCC	307	CC	N CC	307	6.4
2	Vaibhavi Nilaya Road	147 BS(ES,WS) BSD	NRCC	90	EX Asp	GD	137.5	5.8
3	17th Main	72 OBS (BS)	NRCC		EX Asp	GD	82	5.4
4	Om Sai Ram Nilaya	25 OBS(BS)	NRCC	25	MUD	ASPHALT	25	5.2
5	Samruddhi Nilaya Road	51 OBS (BS)	NRCC	51	EX Asp	GD	51	5.7
6	Khadhyota Nilay Rd	51.5 OBS (BS)	NRCC	51	EX Asp	GD	51.5	5.8
7	16th Main Road	100 OBS(BS),40 ND (BS)	NRCC	136	EX Asp	GD	136	5.6
8	16th Cross RD	87 OBS (BS)	NRCC	87	EX Asp	GD	87	5.5
9	15th B Main Rd	25 ND (BS)	NRCC	25	EX Asp	BD	25	5.3
10	SS Medical Agency	NOC		21	CC	BD	22	4.1
11	Cross Rd-1		-	-	CC	BD	35	1.5

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13	Lassi Shop road(W1154)	NO DRAIN	NRCC	188	CONCRETE(GOOD)+MUD	CONCRETE	road=238.4+mud=52.3	
12	Anjaneya Temple Rd	-	-	-	CC	BD	52	2.8
13	Lakshmi Narashimhaswamy Prasanna Rd	47	NRCC 1	47	EX Asp	GD	47	4.2
16	Amma House road(W1162)	SSM,PCS1.5m	R&R,DESILT	170	ASPHALT(GOOD)	BM,BC	200	6.5
17	6th Main Road(W1453)	NO DRAIN	NRCC	158	ASPHALT(GOOD)	BM,BC	158	5.7
18	Sri Bairaveshwara Nilaya (W1459)	NO DRAIN	NRCC	147	ASPHALT(GOOD)	BM,BC	147	5.9
19	Ammana Madilu(W1461)	NO DRAIN	NRCC	145	ASPHALT(GOOD)	BM,BC	145	5.9
20	Sai home Road(3rd Main Road)(W1463)	NO DRAIN	NRCC	110	ASPHALT(GOOD)	BM,BC	110	6.1
21	2nd Main road(W1465)	NO DRAIN	NRCC	117	ASPHALT(GOOD)	BM,BC	117	5.3
22	1st main Road(W1467)	NO DRAIN	NRCC	55	ASPHALT(GOOD)	BM,BC	55	5.7
23	NandhaDeepa Nilaya Road(W1156)	NO DRAIN	NRCC	100	ASPHALT(GOOD)	BM,BC	110	6.6
14	Maruthi Electricals	40 RCC Slab	RR& D	40	CC	GD	40	2.8
15	Cross Rd-2	65 RCC Slab	RR& D	65	CC	BD	65	2.8
16	Sri Lakshmi Venkateshwara Krupa Rd	NO DRAIN	NRCC (BS)	56	MUD	ASPHALT	54	4.4
17	Nammoora Govt School	108 NS (OBS),108 SS (Deck)	NRCC	108	CC	BD	108	5.3

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18	Cross RD-3	21 WS(OBS)	-	-	CC	BD	21	3.9
19	Cross RD-4	30 BS(1)	NRCC 1	30	MUD	ASPHALT	30	5.3
20	Cross RD-5	35	NRCC(BS)	35	MUD	ASPHALT	30	5.3
21	Sri Veerabhadra Motors	120	RR,1cr Fl	120	CC	BD	120	4.5
22	Cross Rd-6	20 BS	1Cr Fl,RR & D	20	CC	GD	20	2.3
23	MuniBettadeshwara Swamy Trust	104 BSD	NRCC	104	CC	BD	104	4.2
24	SLV Condiments	88 RCC	RR,1cr Fl	88	CC	BD	88	5.9
25	Nammoora Govt School Ground RD	85 BS(OBS)	RR&D	85	CC	BD	85	4.5
26	Sri Lakshmi Venkateshwara Nilaya Rd	40 (1sd)BS,40 1SD RCC	RR,1cr Fl & D	82	CC	GD	82	3.5

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CROSS SECTION

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BS DRAIN FLAGGING COARSE DETAILS

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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BS DRAIN FLAGGING COARSE DETAILS

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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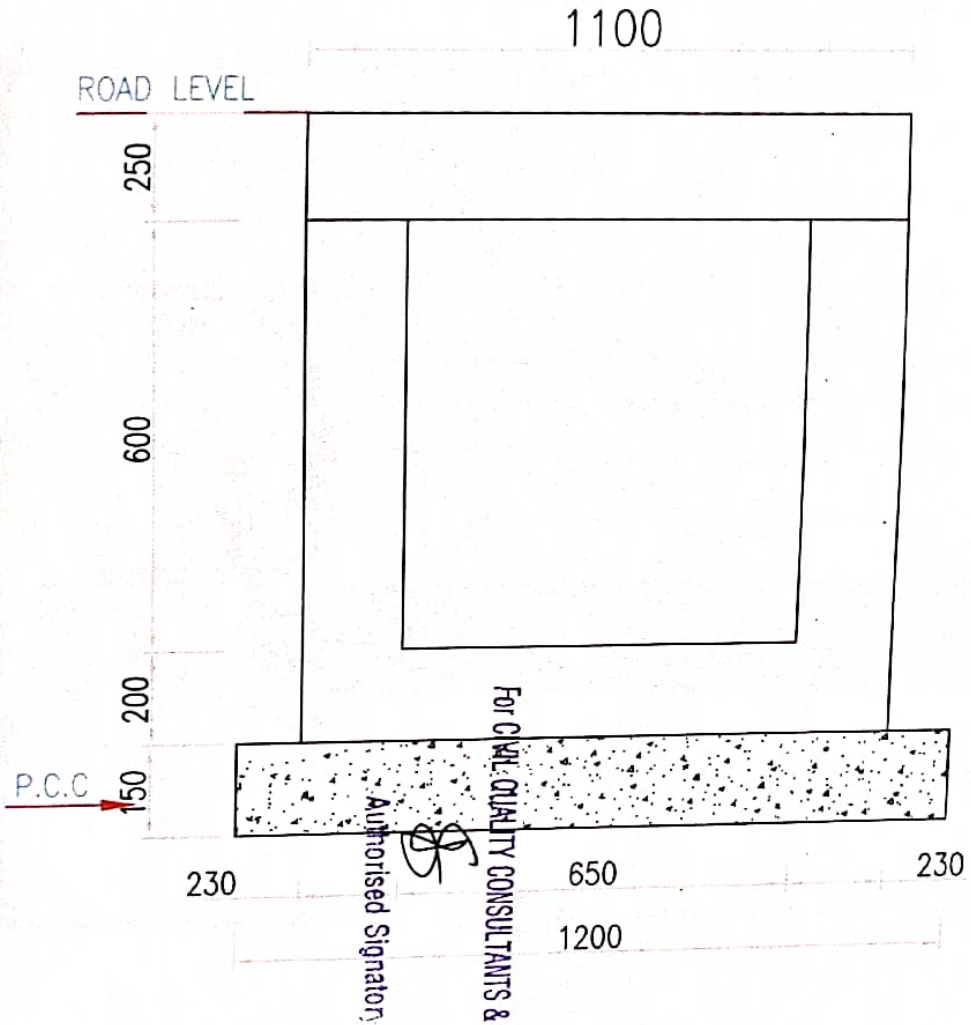
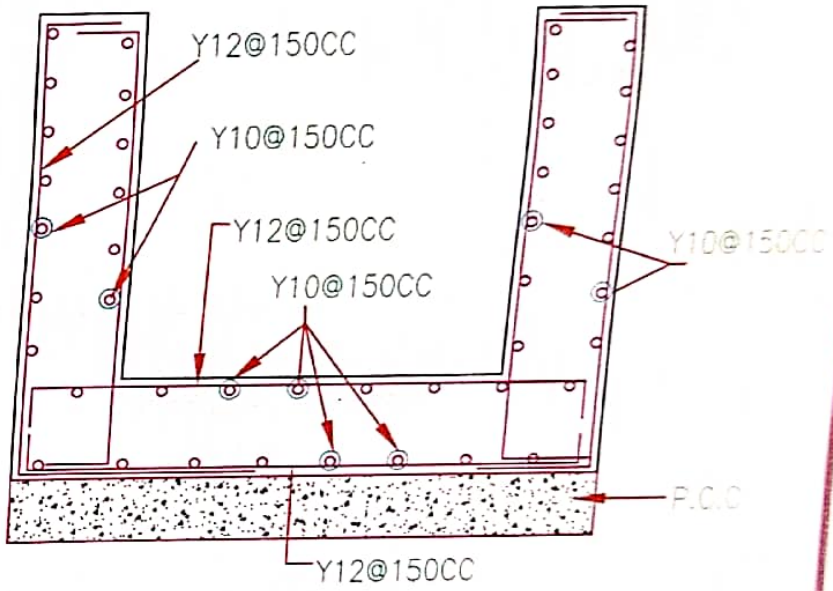


R.C.C BOX CULVERT CONCRETE DETAILS



R.C.C BOX CULVERT REINFORCEMENT DETAILS

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For CIVIL QUALITY CONSULTANTS & ENGIN

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DATA RATE

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer - Project Division, Yelahanka Zone

Rate Analysis for Removing and Resetting of Footpath Slab

Sl No.	Description	Unit	Qty	Rate	Amount
	Removing and Resetting of Footpath Slab				
	Consider 10.00 Sqm				
	Labour				
A	Mazdoor (From Vol, Labour rates, unskilled no. 1, Pg No. A-52)	Day	1	486.22	486.22
B	Mazdoor light (Blacksmith Assistant) (From Vol, Labour rates, unskilled no. 2, Pg No. A-52)	Day	3	486.22	1458.66
			Total		**1944.88**
		Add Over Head Charges 10%			194.49
		Add Contractor's Profit 10% (10% of Total + Over Head Charges)			213.94
		Cost of Rs. 10.00 Sqm			**2353.30**
		Rate per Sqm			235.33
		Round Off			-0.33
		Net Rate Per Sqm			**235.00**

Rupees Two Hundred and Thirty Five Only

Certificate.

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Assistant Engineer

Asst Exec. Engineer

Executive Engineer

"Approved"

18/6/2022

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer - Project Division, Yelahanka Zone

Rate Analysis for Removing and Resetting of Kerb Stones

Sl No.	Description	Unit	Qty	Rate	Amount
	Removing and Resetting of Kerb Stones				
	Consider 10.00 m				
	Labour				
A	Mazdoor (From Vol, Labour rates, unskilled no. 1, Pg No. A-52)	Day	1	486.22	486.22
B	Mazdoor light (Blacksmith Assistant) (From Vol, Labour rates, unskilled no. 2, Pg No. A-52)	Day	1	486.22	486.22
			Total		972.44
		Add Over Head Charges 10%			97.24
		Add Contractor's Profit 10% (10% of Total + Over Head Charges)			106.97
		Cost of Rs. 10.00 m			1176.65
		Rate per m			117.67
		Round Off			0.33
		Net Rate Per m			118.00

Rupees One Hundred and Eighteen Only

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18/6/2022

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer - Project Division, Yelahanka Zone

Rate Analysis for Removing Covering Slab of Drain and stacking

Sl No.	Description	Unit	Qty	Rate	Amount
	Removing B S Slab of Drain and stacking				
	Consider 10.00 Sqm				
	Labour				
A	Mazdoor (From Vol, Labour rates, unskilled no. 1, Pg No. A-52)	Day	1	486.22	486.22
B	Mazdoor light (Blacksmith Assistant) (From Vol, Labour rates, unskilled no. 2, Pg No. A-52)	Day	1	486.22	486.22
			Total		972.44
		Add Over Head Charges 10%			97.24
		Add Contractor's Profit 10% (10% of Total + Over Head Charges)			106.97
		Cost of Rs. 10.00 Sqm			1176.65
		Rate per Sqm			117.67
		Round Off			0.33
		Net Rate Per Sqm			118.00

Rupees One Hundred and Eighteen Only

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Executive Engineer

"Approved"

18/6/2022

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer - Project Division, Yelahanka Zone

Rate Analysis for Removing and refixing cover slabs of drains and pointing in C.M (1:2)

Sl No.	Description	Unit	Nos	Length	Width	Qty	Rate	Amount
	Removing and Refixing Stone Slabs of drains and pointing in C.M (1:3)							
	Consider 10.00 Sqm							
	Labour							
A	Mazdoor (From Vol, Labour rates, unskilled no. 1, Pg No. A-52)	Day				1	486.22	486.22
B	Mazdoor light (Blacksmith Assistant) (From Vol, Labour rates, unskilled no. 2, Pg No. A-52)	Day				1	486.22	486.22
								972.44
		Add Over Head Charges 10%						97.24
		Add Contractor's Profit 10% (10% of Total + Over Head Charges)						106.97
	Consider Pointing 1:2 (10m*1.0m = 15Nos of 0.6m width of each Slab) Vol II, P No. 44, Item no.8.20 Providing Flush/ Ruled Pointing on stone slab ceiling with cement mortar 1:2(1 cement: 2 fine sand) after raking joints to depth nicely, lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in charge	Sqm	15	1.00	0.02	0.3	113.00	33.90
							Total	1210.55
		Cost of Rs. 10.00 Sqm						1210.55
		Rate per Sqm						121.06
		Round Off						-0.06
		Net Rate Per Sqm						121.00

Rupees One Hundred and Twenty One Only

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Assistant Engineer

Asst Exec. Engineer
"Approved"

Executive Engineer

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BRUHAT BANGALORE MAHANAGARA PALIKE

RATE ANALYSIS

Providing B S slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete. as directed by the Engineer In Charge of the work (excluding GST and Area Leading Charges)

For One Day It requires Mazdoor Heavy -1 No, Mazdoor Light - 3 No for fixing 10sqm

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate In Rs	Amount In Rs
A	MATERIAL COMPONENT								
1	Burnt stone slabs 10cms thick								
			1	10.00	1.00		10.00		
		sqm					10.00	430.00	4300.00
	Pg No A-14 It No 074 of PWD SR 2021-22 of Vol-2								
	Basic rate	*430.00*							
	For pointing of 10 sqm of Drain Cover Slab It requires 0.01 cum of CM (10X1X0.01X0.1)=0.01								
2	Cement								
	For 1cum of CM It requires 10.2 Bags of Cement								
	For 0.01 cum of CM It requires		=	10.2	X	0.01			
			=		0.102				
	kgs		1	0.10			0.10		
		Bag					0.10	447.00	44.70
	Pg No A-39 It No 29 of PWD SR 2021-22 of Vol-1								
	Basic rate	*447.00*							
3	Coarse Sand								
	For 1cum of CM It requires 1.07 cum of Sand								
	For 0.01 cum of CM It requires		=	1.07	X	0.01			
			=		0.0107				
	cum		1	0.01			0.01		
	at 0.43 cum								
		cum					0.01	1488.00	14.88
	Pg No A-41 It No 74 of PWD SR 2021-22 of Vol-1								
	Basic rate	*1488.00*							
B	LABOUR COMPONETS								
	For fixing of 10m Length of Slab It requires Mason- Class 2 of 1 No and Mazdoor heavy of 1 No and Mazdoor light of 2 No								
			1				1.00		
4	Mazdoor Heavy						1.00	486.22	486.22
		Day							
	Pg No A-52 It No 1 of PWD SR 2021-22								
	Basic rate	*486.22*							

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate In Rs	Amount In Rs
			4				4.00		
5	Mazdoor Ught								
	(Slab Shifting 2, Mortar Mixing and Shifting 2)	Day					4.00	486.22	1944.88
	Pg No A-52 It No 2 of PWD SR 2021-22								
	Basic rate	*486.22*							
								A	6790.68
									67.91
6	Add 1% Water Charges on A							Sub Total 1	6858.59
								Over Head Charges at 10%	685.86
								Sub Total 1	7544.45
								Add Contractor's Profit 10% (10% of Total + Over Head Charges)	829.89
							10.00	sqm Total	8374.34
	For 10sqm								
							For 1 Sqm = 8298.9 / 10 =		837.43
								Say Rs.	837.00
	Rupees Eight Hundred and Thirty Seven Only								

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Assistant Engineer

Assistant Executive Engineer

Executive Engineer

"Approved"

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer Project Division, Yelahanka Zone

DATA RATE FOR PRECAST SLAB 10CM THICK

Sl No	Description of Items		No	Length m	Width m	Depth m	Quantity	Rate	Amount
1	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately)M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-I,P.No.17, I.No.2.5.1 of PW, P&IWTD S.R 2021-22)								
	Basic rate	6,471.00							
	Centring & Shuttering 5%	323.55							
		6,794.55							
	10% AW	679.46							
	Total	7,474.01							
		Cum							
			1	1.20	0.60	0.10	0.07		
							0.07	7,474.01	538.13
3	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.(V-III, I.No 13.1 Page No 99, PWD SR 2021-22) Issue Rate:07-04-2022								
	Basic rate	103,329.00							
	10% AW	10,332.90							
	Total	113,661.90							
		Ton							
	12mm dia @125mm c/c	0.89 Kg/m	5	1.20		0.89	5.34		
	10mm dia @150mm c/c	0.61 Kg/m	8	0.60		0.61	2.93		
							8.27		
							0.008	113661.90	939.76
3	PVC pipe - OD 32mm and 10 Kg/sqcm(V-V , I.No 1178 Page No 34, BWSSB SR 2021-22)								
	Basic rate	33.00							
	10% AW	3.30							
	Total	36.30							

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Sl No	Description of Items		No	Length m	Width m	Depth m	Quantity	Rate	Amount
		Mtr							
	Pipe For Weep Hole		4	0.10			0.40		
							0.40	36.30	14.52
								Total	1,492.40

Therefore Cost for Per Sqm = Total /(1.8*0.6) $\frac{1,492.40}{(1.2*0.6)}$ = 2072.78

Say 2072.00

Rupees Two Thousand and Seventy Two Only Per Sqm

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Assistant Engineer

Asst Exec. Engineer

Executive Engineer

"Approved"

15/6/2022

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer Project Division, Yelahanka Zone

DATA RATE FOR PRECAST SLAB 15CM THICK

Sl No	Description of Items	No	Length m	Width m	Depth m	Quantity	Rate	Amount
1	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately)M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-I,P.No.17, I.No.2.5.1 of PW, P&IWTD S.R 2021-22)								
	Basic rate	6,471.00							
	Centring & Shuttering 5%	323.55							
		6,794.55							
	10% AW	679.46							
	Total	7,474.01							
		Cum							
			1	1.20	0.60	0.15	0.11		
					.		0.11	7,474.01	807.19
2	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.(V-III, I.No 13.1 Page No 99, PWD SR 2021-22) Issue Rate:07-04-2022								
	Basic rate	103,329.00							
	10% AW	10,332.90							
	Total	113,661.90							
		Ton							
	12mm dia @125mm c/c	0.89 Kg/m	5	1.20		0.89	5.34		
	10mm dia @125mm c/c	0.61 Kg/m	10	0.60		0.61	3.66		
							9.00		
							0.009	113661.90	1,022.96
3	PVC pipe - OD 32mm and 10 Kg/sqcm(V-V , I.No 1178 Page No 34, BWSSB SR 2021-22)								
	Basic rate	33.00							
	10% AW	3.30							
	Total	36.30							
		Mtr							

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Sl No	Description of Items	No	Length m	Width m	Depth m	Quantity	Rate	Amount
	Pipe For Weep Hole	4	0.10			0.40		
						0.40	36.30	14.52
							Total	1,844.67

Therefore Cost for Per Sqm = Total /(1.8*0.6) $\frac{1,844.67}{(1.2*0.6)}$ = 2562.04

Say 2562.00

Rupees Two Thousand Five Hundred and Sixty Two Only Per Sqm

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Assistant Engineer

Asst Exec. Engineer

Executive Engineer

"Approved"

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12/6/2022

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer Project Division, Yelahanka Zone

DATA RATE FOR PRECAST SLAB 23CM THICK

Sl No	Description of Items	No	Length M	Width M	Depth M	Quantity	Rate	Amount
1	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately)M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-I,P.No.17, I.No.2.5.1 of PW, P&IWTD S.R 2021-22)								
	Basic rate	6,471.00							
	Centring & Shuttering 5%	323.55							
		6,794.55							
	10% AW	679.46							
	Total	7,474.01							
		Cum							
			1	1.80	0.60	0.23	0.25		
							0.25	7,474.01	1,856.54
2	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.(V-III, I.No 13.1 Page No 99, PWD SR 2021-22) Issue Rate:07-04-2022								
	Basic rate	103,329.00							
	10% AW	10,332.90							
	Total	113,661.90							
		Ton							
	16mm dia @150mm c/c	1.58 Kg/m	8	1.80		1.58	22.75		
	10mm dia @150mm c/c	0.61Kg/m	24	0.60		0.61	8.78		
							31.54		
							0.032	113661.90	3,584.44
								Total	5,440.98

Therefore Cost for Per Sqm = Total /(1.8*0.6) $\frac{5,440.98}{(1.8*0.6)}$ = 5037.95

Say 5037.00

Rupees Five Thousand and Thirty Seven Only Per Sqm

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Assistant Engineer | Asst Exec. Engineer | Executive Engineer

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer Project Division, Yelahanka Zone

DATA RATE FOR PRECAST BOLLARDS

Description of Items	No	Length M	Width M	Depth M	Quantity	Rate	Amount
Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates (V-I Page No.15, Item No.2.1.4 of PWD SR 2021-22)							
Basic rate	5926.00						
10% AW	592.60						
Total	6,518.60						
	Cum						
BY Considering 10 Nos Bollards							
For Foundation		10	0.096		0.45	0.43	
Deduct Bollard Qty		-10	0.018		0.30	-0.05	
						0.38	6,518.60	2,464.03
Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately)M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-I,P.No.17, I.No.2.5.1 of PW, P&IWTD S.R 2021-22)							
Basic rate	6,471.00						
Centring & Shuttering 5%	323.55						
	6,794.55						
10% AW	679.46						
Total	7,474.01						
Bollards		10	0.018		1.20	0.22	
						0.22	7,474.01	1,614.39
Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.(V-III, I.No 13.1 Page No 99, PWD SR 2021-22) Issue Rate:07-04-2022							
Basic rate	103,329.00						
10% AW	10,332.90						
Total	113,661.90						
	Ton						
For Bollards							
Nos 12mm Vertical ro	0.889Kg/m	30	1.25		0.889	33.34		
0mm dia @150mm c/c	0.395Kg/m	93	0.44		0.395	16.16		
						49.50		
						0.050	113661.90	5,626.37

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Sl No	Description of Items		No	Length M	Width M	Depth M	Quantity	Rate	Amount
4	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces (V-III, P.No.56, I.No 8.10 of PW, PWD SR 2021-22)								
	Basic rate	85.00							
	Area Weightage 10%	8.5							
	Total	93.50							
		Sqm							
	For Bollards								
			10	0.471		0.90	4.24		
							4.24	93.50	396.35
5	Labuour Charge For Fixing								
	Mason Class-1	Per Day	1				1.00	496.22	496.22
	Mazdoor light (Blacksmith Assistant)	Per Day	3				3.00	486.22	1,458.66
6	Transportation Charges (Tractor)								
	Consider One Tractor Load as 30 Bollards (For 10 Bollards 4/3 =2)	Hour		2.00			2.00	510.04	1,020.08
									13,076.09
								Add Over Head Charges 10%	1307.61
								Add Contractor's Profit 10% (10% of Total + Over Head Charges)	1438.37
								Total	15822.07

Therefore Cost for Per Bollards = Total /10Nos $\frac{15,822.07}{10}$ 1582.21

Say 1582.00

Rupees One Thousand Five Hundred and Eighty Two Only

Certificate.

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Assistant Engineer

Asst Exec. Engineer

Executive Engineer

"Approved"

8/6/2022

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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BRUHAT BANGALORE MAHANAGARA PALIKE

RATE ANALYSIS FOR KERBS

Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc.,complete as directed by the Engineer in Charge of the work (excluding GST and Area Leading Charges)

Considering 25 cum of Output per day

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate In Rs	Amount In Rs
A	MATERIAL COMPONENT								
1	Cement								
	For M20 Cement Required Is 320kg/cum								
	For 25 cum, Cement Required Is		=	25	X	320			
	kgs		=		8000				
	One Bag = 50 kgs								
	No of Bags For 86400 kgs		=	8000 / 50	=	160			
			1	160.00			160.00		
		Bag					160.00	447.00	71520.00
	Pg No A-39 It No 29 of PWD SR 2021-22 of Vol-1								
	Basic rate	*447.00*							
2	Coarse Sand								
	at 0.43 cum		1	10.75			10.75		
	25 x 0.43 = 10.75								
		cum					10.75	1488.00	15996.00
	Pg No A-41 It No 74 of PWD SR 2021-22 of Vol-1								
	Basic rate	*1488.00*							
3	20mm Aggregates								
	at 0.69 cum		1	17.25			17.25		
	25 x 0.69 = 17.25								
		cum					17.25	1350.00	23287.50
	Pg No A-38 It No 4 of PWD SR 2021-22 of Vol-2								
	Basic rate	*1350.00*							
B	LABOUR COMPONETS								
4	Mason Class - 2		1				1.00		
		Day					1.00	496.22	496.22
	Pg No A-51 It No 23 of PWD SR 2021-22								
	Basic rate	*496.22*							
5	Mazdoor Heavy		2				2.00		
	(Shifting of Materials for mixing Concrete and Casting of Kerbs)	Day					2.00	486.22	972.44
	Pg No A-52 It No 1 of PWD SR 2021-22								
	Basic rate	*486.22*							

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate In Rs	Amount In Rs
6	Mazdoor Light		8				8.00		
	(Shifting of Materials for mixing Concrete and Casting of Kerbs)	Day					8.00	486.22	3889.76
	Pg No A-52 It No 2 of PWD SR 2021-22								
	Basic rate	*486.22*							
C	Machinery								
7	Concrete Mixer - 1m3								
			8				8.00		
		hour					8.00	387.00	3096.00
	Pg No A-43 It No 6 of PWD SR 2021-22								
	Basic rate	*387.00*							
8	Generator 33KVA								
			8				8.00		
		hour					8.00	2865.00	22920.00
	Pg No A-44 It No 36 of PWD SR 2021-22								
	Basic rate	*2865.00*							
9	Needle Vibrator								
			2	8.00			16.00		
		hour					16.00	395.00	6320.00
	Pg No A-46 It No 82 of PWD SR 2021-22								
	Basic rate	*395.00*							
	For Fixing In Site								
D	MATERIAL COMPONENT FOR CM 1:3								
	25cum of Concrete Can be used to cast 833 No of Kerbs (1850m Length)								
	For pointing of 1850 m of Kerb it requires 2.29 cum of CM (1850/0.45=4111),(4111x0.4x0.14)=2.29								
10	Cement								
	For 1cum of CM it requires 10.2 Bags of Cement								
	For 2.29 cum of CM it requires		=	10.2	X	2.29			
	kgs		=		23.358				
			1	23.36			23.36		
		Bag					23.36	447.00	10441.92
	Pg No A-39 It No 29 of PWD SR 2021-22 of Vol-1								
	Basic rate	*447.00*							
11	Coarse Sand								
	For 1cum of CM it requires 1.07 cum of Sand								
	For 2.29 cum of CM it requires		=	1.07	X	2.29			
	cum		=		2.4503				
	at 0.43 cum		1	2.45			2.45		
		cum					2.45	1488.00	3645.60
	Pg No A-41 It No 74 of PWD SR 2021-22 of Vol-1								
	Basic rate	*1488.00*							

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate In Rs	Amount In Rs
	1 Mazdoor Can fix 10m length of Kerb for One Day , No of Days required to fix 1850 m length = 1850 / 10 = 185								
12	Mazdoor Heavy		185				185.00		
		Day					185.00	486.22	89950.70
	Pg No A-52 It No 1 of PWD SR 2021-22								
	Basic rate	*486.22*							
13	Mazdoor Light		185				185.00		
		Day					185.00	486.22	89950.70
	Pg No A-52 It No 2 of PWD SR 2021-22								
	Basic rate	*486.22*							
								A	342486.84
	Add 1% Water Charges on A								3424.87
								Sub Total	345911.71
								Over Head Charges at 10%	34591.17
								Sub Total 1	380502.88
								Add Contractor's Profit 10% (10% of Total + Over Head Charges)	41855.32
	No of Kerbs For 2Scum of M 20 Concrete	=	25.00 / 0.03	=	833.00	Nos		Total	422358.20
	(For 1 Kerb volume of Concrete = ((avg(114:165)x400x450))mm3 = 0.03 cum)								
							For 1 No = 418553.17 / 833 =		507.03
								Say Rs.	507.00

Rupees Five Hundred and Seven Only

Certificate.

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Assistant Engineer

Assistant Executive Engineer

Executive Engineer

"Approved"

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು 18/6/2022
ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer Project Division, Yelahanka Zone

RATE ANALYSIS - ONE LINE DRESSING

Providing one line dressing to granite stone slab / granite stone masonry as per specifications as directed by the Engineer In Charge of the work (excluding GST and Area Leading Charges)

Considering Stone Chisteler - 1 No, Mazdoor Light - 1 No for Dressing per Day

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate In Rs	Amount In Rs
A	LABOUR COMPONETS								
1	For One Line Dressing of B S Slab it requires Stone Chistler of 1 No and Mazdoor light of 1 No								
	For One Day One Stone Chistler can dress upto 5 Sqmtr								
	Stone Chistler		1				1.00		
		Day					1.00	506.22	506.22
	Pg No A-50 It No 24 of PWD SR 2021-22								
	Basic rate	*506.22*							
	Mazdoor Light		1				1.00		
		Day					1.00	486.22	486.22
	Pg No A-52 It No 2 of PWD SR 2021-22								
	Basic rate	*486.22*							
								Sub Total	992.44
								Over Head Charges at 10%	99.24
								Sub Total 1	1091.68
								Add Contractor's Profit 10% (10% of Total + Over Head Charges)	120.08
								Total	1211.76
	For One Day One Stone Chistler can dress upto 5 Sqmtr						5.00	sqm	
							For 1 sqm = 1200.85 / 5 =		242.35
								Say Rs.	242.00

Rupees Two Hundred and Forty Two Only

Certificate.

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Assistant Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

"Approved"

17/6/2022

ಆದೇಶದ ಅಧಿಕಾರಿಯವರು
ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer Project Division, Yelahanka Zone

Rate Analysis for Removing and Resetting of Cobble Stone

Sl No.	Description	Unit	Qty	Rate	Amount
	Removing and Resetting of Cobble Stone				
	Consider 10.00 Sqm				
	Labour				
A	Tile Layer(A-51, Sl.No-35 Zone1)	Day	1	496.22	496.22
B	Mazdoor light (A-52, Sl.No-2 Zone1)	Day	4	486.22	1944.88
	Material				
A	Stone dust (From Vol. I, Item no. 3.12 Rate analysis Pg No. 111) (10SqmX0.05m=0.50Cum)	Cum	0.5	1390.48	695.24
			Total		3136.34
			Add Over Head Charges 10%		313.63
			Add Contractor's Profit 10% (10% of Total + Over Head Charges)		345.00
			Cost of Rs. 10.00 Sqm		3794.97
			Rate per Sqm		379.50
			Round Off		0.50
			Net Rate Per Sqm		380.00

Rupees Three Hundred and Eighty Only

Certificate.

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Assistant Engineer

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BBMP, Bangalore-92

"Approved"

13/6/2022

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer Project Division, Yelahanka Zone

RATE ANALYSIS - MACHINE CUTTING

Providing Machine Cutting edges to B S slab 2.5 cms. wide as per specifications. (only chamfered length shall be recorded) inclusive of all Taxes complete. as directed by the Engineer in Charge of the work (excluding Area Leading Charges)

For One Day it requires Stone Cutter - 1 No, Mazdoor Light - 1 No for Cutting

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
A	MATERIAL COMPONENT								
1	Cost of Cutting Blades								
	Consider one blade will work out to cut 25 mtr length of B S Slab edges								
	for cutting 100 mtr length of edges of B S Slab Blade required is 4 Nos		4				4.00		
		Nos					4.00	120.00	480.00
	Basic rate	*120.00*							
B	HIRE CHARGES								
2	Hire Charges of Cutting Machine								
	Consider one cutting will work out to cut 25 mtr length of B S Slab edges a Day								
	for cutting 100 mtr length of edges of B S Slab, Cutting Machine required is 4 Nos (considering Machine Works for 8 hrs a Day)		4	8.00			32.00		
		hr					32.00	364.00	11648.00
	Pg No A-43 It No 5 of PWD SR 2021-22								
	Basic rate	*364.00*							
3	Hire Charges of Generator (33KVA Capacity)								
	Genarator requires same Days as required by Cutting Machine								
			4	8.00			32.00		
		hr					32.00	496.00	15872.00
	Pg No A-44 It No 37 of PWD SR 2021-22								
	Basic rate	*496.00*							
C	LABOUR COMPONETS								
4	For Machine Cutting of B S Slab It requires Stone Cutter of 1 No and Mazdoor light of 1 No								
	For Cutting 100mtr Length It requires 4 Days								
	Stone Cutter		4				4.00		
		Day					4.00	506.22	2024.88
	Pg No A-49 It No 2 of PWD SR 2021-22								
	Basic rate	*506.22*							

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate In Rs	Amount In Rs
	Mazdoor Light		4				4.00		
		Day					4.00	486.22	1944.88
	Pg No A-52 It No 2 of PWD SR 2021-22								
	Basic rate	486.22							
								Sub Total	31969.76
								Over Head Charges at 10%	3196.98
								Sub Total 1	35166.74
								Add Contractor's Profit 10% (10% of Total + Over Head Charges)	3868.34
								Total	39035.08
	For 100m Length	100			=	100.00	m		
						For 1 m = 38683.41 / 100 =			390.35
								Say Rs.	390.00

Rupees Three Hundred and Ninety Only

Certificate.

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Assistant Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

"Approved"

17/6/2022

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RATE ANALYSIS OF [illegible]

SUBJECT : CONSTRUCTION OF DRY WASTE COLLECTION CENTRE AT VARIOUS 14 LOCATIONS IN BANAGALORE CITY

NAME OF THE AGENCY : NPR INFRATECH

SL NO	PARTICULARS	AMOUNT PER DAY	AMOUNT/MONTH	REMARKS
1	Cost of 10 wheeler			33,00,000.00
2	Excavator for loading inert	230.00	6,90,759.00	Loading inert for 10 wheeler
3	Cost of 10 wheeler per month	1,146.00	34,375.00	cost of 10 wheeler/8 years(life) 12 months
4	Driver salary	528.00	15845+232(2018-19 VDA) Total=16,077.00	As per new labour law
5	Hire charges	2,000.00	60,000.00	
6	Helper salary	583.00	17487+232(2018-19 VDA) Total = 17,719.00	
7	Fuel	3,900.00	1,17,000.00	39Ltr/days*30days/trip*100 disel rate for month
8	O & M	917.00	27,500.00	10% cost of 10 wheeler/12months
9	Uniform & gloves	47.00	1,410.00	Rs. 500 for 2 sets of uniform and Rs. 60 for 4 set of gloves per annum
	Total	9,351.00		

Note : Milage of 10 wheeler vehicle is 2km/ltr, distance between RR Nagar to Mittaganahalli scientific landfill quarry is 39 km up and down is 78km. Vehicle needs 39/ltrs of disel per trip

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elkpwd@gmail.com

ಕರ್ನಾಟಕ ಸರ್ಕಾರ
ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರ ಕಚೇರಿ
ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ
ಬೆಂಗಳೂರು ವೃತ್ತ, ಬೆಂಗಳೂರು

ತಿದ್ದುಪಡಿ ಪ್ರಕಟಣೆ: 2

- 6 JUL 2022

ವಿಷಯ: 2021-22ನೇ ಸಾಲಿನ ದರಪಟ್ಟಿಗಳಲ್ಲಿ 2ನೇ ತಿದ್ದುಪಡಿ ಮಾಡುವ ಕುರಿತು.

ಉಲ್ಲೇಖ: 1) ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ : ಲೋಇ 51 ಆರ್.ಡಿ.ಎಫ್ 2019 ದಿನಾಂಕ 18-03-2022
2) ದಿನಾಂಕ : 21-04-2022 ರಲ್ಲಿ ನೀಡಲಾಗಿರುವ ತಿದ್ದುಪಡಿ ಪ್ರಕಟಣೆ

****

ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ : ಲೋಇ 51 ಆರ್.ಡಿ.ಎಫ್ 2019 ದಿನಾಂಕ 18-03-2022 ರಂತೆ ಡುಗಡೆಯಾಗಿರುವ ಸಂಪುಟ-1, 2 ಮತ್ತು 3 ರ ದರಪಟ್ಟಿಗಳನ್ನು 2022-23 ನೇ ಸಾಲಿಗೆ ುಂದುವರೆಸಲಾಗಿರುತ್ತದೆ. ಸದರಿ ದರಪಟ್ಟಿಯ ಸಂಪುಟ-2 ರಲ್ಲಿನ ಸಾಮಾನ್ಯ ಟಿಪ್ಪಣಿ ಸಂಖ್ಯೆ : 30ರಂತೆ ಹಾಗೂ ಂಪುಟ-3ರ ಸಾಮಾನ್ಯ ಟಿಪ್ಪಣಿ ಸಂಖ್ಯೆ : 17 ರಂತೆ ದರಪಟ್ಟಿಗಳಲ್ಲಿ ಕೆಲವೊಂದು ಹೆಚ್ಚುವರಿ ಅಂಶಗಳ ೇರ್ಪಡೆ/ತಿದ್ದುಪಡಿ ಮಾಡಿ ಉಲ್ಲೇಖ (2) ರಲ್ಲಿ ಪ್ರಕಟಣೆ ಹೊರಡಿಸಲಾಗಿತ್ತು.

ಮುಂದುವರೆದು, ತಾಂತ್ರಿಕ ಕಾರ್ಯನಿರತ ತಂಡ, ಎಲ್ಲಾ ಇಲಾಖೆಗಳ ಹಿರಿಯ ಅಧಿಕಾರಿಗಳು ಮತ್ತು ಭಿಯಂತರರುಗಳ ಇನ್ನಷ್ಟು ಅಂಶಗಳ ಕುರಿತು ಸಲಹೆಗಳನ್ನು ನೀಡಿರುತ್ತಾರೆ. ಅದರಂತೆ, ಸಲಹೆಗಳನ್ನು ಪರಿಗಣಿಸಿ ಂಪುಟ-1, 2 ಮತ್ತು 3 ರ ದರಪಟ್ಟಿಗಳಲ್ಲಿ ಅವಶ್ಯವಿರುವ ಅಂಶಗಳಿಗೆ ಪೂರಕ ವಿವರಣೆಯೊಂದಿಗೆ ಮತ್ತು ಷ್ಟೀಕರಣ ಹಾಗೂ ತಿದ್ದುಪಡಿ ಪ್ರಕಟಣೆಯನ್ನು ದಿನಾಂಕ 06-07-2022 ರಿಂದ ಅನ್ವಯಿಸುವಂತೆ ಆದೇಶಿಸಲಾಗಿದೆ ಂಗೂ ಇಲಾಖೆಯ ಜಾಲತಾಣ www.kpwd.karnataka.gov.in ರಲ್ಲಿ ಪ್ರಕಟಿಸಲಾಗಿದೆ.

-ಸಹಿ-
ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಲೋಇ ಬೆಂಗಳೂರು ವೃತ್ತ

ನ್ನು:

ಸರ್ಕಾರದ ಅಪರ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿಗಳು, ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ, ವಿಕಾಸ ಸೌಧ, ಬೆಂಗಳೂರು ರವರ ಘನ ಮಾಹಿತಿಗಾಗಿ ಸಲ್ಲಿಸಿದೆ.
ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು, ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ, ವಿಕಾಸ ಸೌಧ, ಬೆಂಗಳೂರು ರವರ ಘನ ಮಾಹಿತಿಗಾಗಿ ಸಲ್ಲಿಸಿದೆ.
ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು, ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆ, ವಿಕಾಸ ಸೌಧ, ಬೆಂಗಳೂರು ರವರ ಘನ ಮಾಹಿತಿಗಾಗಿ ಸಲ್ಲಿಸಿದೆ.

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4. ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು, ಸಣ್ಣ ನೀರಾವರಿ ಇಲಾಖೆ, ವಿಕಾಸ ಸೌಧ, ಬೆಂಗಳೂರು ರವರ ಘನ ಮಾಹಿತಿಗಾಗಿ ಸಲ್ಲಿಸಿದೆ
5. ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು, ಪಂಚಾಯತ್ ಇಂಜಿನಿಯರಿಂಗ್ ಇಲಾಖೆ, ಬೆಂಗಳೂರು ರವರ ಘನ ಮಾಹಿತಿಗಾಗಿ ಸಲ್ಲಿಸಿದೆ.
. ಪ್ರಧಾನ ಅಭಿಯಂತರರು, ಪ್ರಾಂಸಿ, ಬೆಂಗಳೂರು ರವರ ಘನ ಮಾಹಿತಿಗೆ ಸಲ್ಲಿಸುತ್ತಾ.ಇಲಾಖಾ ವೆಬ್‌ಸೈಟ್‌ನಲ್ಲಿ ಅಪ್‌ಲೋಡ್ ಮಾಡಲು ಕೋರಿದೆ.
ಮುಖ್ಯ ಅಭಿಯಂತರರು, ಸಂಪರ್ಕ ಮತ್ತು ಕಟ್ಟಡಗಳು (ದಕ್ಷಿಣ, ಉತ್ತರ, ಈಶಾನ್ಯ ಮತ್ತು ಕೇಂದ್ರ) ರವರುಗಳ ಘನ ಮಾಹಿತಿಗೆ ಸಲ್ಲಿಸಿದೆ.
ಮುಖ್ಯ ಅಭಿಯಂತರರು, ಬೆಸ್ಕಾಂ ಕೇಂದ್ರ ಕಚೇರಿ ಬೆಂಗಳೂರು ರವರ ಮಾಹಿತಿಗೆ ಸಲ್ಲಿಸಿದೆ.
ಮುಖ್ಯ ಅಭಿಯಂತರರು, ಗ್ರಾಮೀಣಾಭಿವೃದ್ಧಿ ಇಲಾಖೆ, ಬೆಂಗಳೂರು ರವರ ಮಾಹಿತಿಗೆ ಸಲ್ಲಿಸಿದೆ.
. ನಿರ್ದೇಶಕರು, ಇ-ಪ್ರೊಕ್ಯೂರ್‌ಮೆಂಟ್, ಬಹುಮಹಡಿಗಳ ಕಟ್ಟಡ, ಬೆಂಗಳೂರು ರವರ ಘನ ಮಾಹಿತಿಗೆ ಸಲ್ಲಿಸುತ್ತಾ, ಇ-ಪ್ರೋಕ್ ಪೋರ್ಟಲ್‌ನಲ್ಲಿ ಸದರಿ ಆದೇಶದಂತೆ ಪರಿಷ್ಕರಣೆಗಳನ್ನು ಅಪ್‌ಲೋಡ್ ಮಾಡಲು ಕೋರಿದೆ.
ಮುಖ್ಯ ಅಭಿಯಂತರರು, ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ, ಬೆಂಗಳೂರು ರವರ ಮಾಹಿತಿಗೆ ಸಲ್ಲಿಸಿದೆ.
ಮುಖ್ಯ ಅಭಿಯಂತರರು, ಬೆಂಗಳೂರು ಅಭಿವೃದ್ಧಿ ಪ್ರಾಧಿಕಾರ, ಬೆಂಗಳೂರು ರವರ ಮಾಹಿತಿಗೆ ಸಲ್ಲಿಸಿದೆ.
ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು, ಲೋಇ ವೃತ್ತ, ಮೈಸೂರು, ಹಾಸನ, ಮಂಗಳೂರು, ಬಳ್ಳಾರಿ, ಕಲ್ಬುರ್ಗಿ, ಬೆಳಗಾವಿ, ಧಾರವಾಡ ಮತ್ತು ಶಿವಮೊಗ್ಗ ರವರುಗಳ ಮಾಹಿತಿಗಾಗಿ ಇ-ಮೇಲ್ ಮುಖಾಂತರ ಕಳುಹಿಸಿದೆ.
ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು, ಗ್ರಾಮೀಣಾಭಿವೃದ್ಧಿ ಇಲಾಖೆ, ಬೆಂಗಳೂರು ರವರ ಮಾಹಿತಿಗಾಗಿ ಇ-ಮೇಲ್ ಮುಖಾಂತರ ಕಳುಹಿಸಿದೆ.
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು, ಲೋಇ ವಿಭಾಗ ಬೆಂಗಳೂರು, ರಾಮನಗರ, ರಾಮನಗರ ವಿಶೇಷ, ಕೋಲಾರ, ಚಿಕ್ಕಬಳ್ಳಾಪುರ, ತುಮಕೂರು ಮತ್ತು ಮಧುಗಿರಿ ರವರ ಮಾಹಿತಿಗಾಗಿ ಇ-ಮೇಲ್ ಮುಖಾಂತರ ಕಳುಹಿಸಿದೆ.
ಕಚೇರಿ ಪ್ರತಿ

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು,
ಲೋಇ ಬೆಂಗಳೂರು ವೃತ್ತ

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PUBLIC WORKS DEPARTMENT

2nd Corrigenda for Vol.1,2 & 3 Schedule of Rates w.e.f ...06-07-2022

Based on the inputs/suggestions received from Departmental Officers & Engineers, the following items have been listed with clarification & correction notes.

SL NO.	VOLUME	ITEM NO	PAGE NO.	DESCRIPTION AS PRINTED IN SR (VOL.1, 2 & 3)	CORRECTED / CLARIFIED AS
1	1	1.13	8	Earth work in surface excavation by mechanical means for lowering & leveling the ground without blasting for all works other than foundation in Ordinary/Soft rock & depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work **In Ordinary/Soft rock upto 300 mm depth : The rate is printed as Rs.327.00/m3**	Earth work in surface excavation by mechanical means for lowering & leveling the ground without blasting for all works other than foundation in Ordinary/Soft rock & depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work **In Ordinary/Soft rock upto 300 mm depth : The rate is corrected as Rs.271.00/m3**
2	1	1.13 RA	38	Earth work in surface excavation by mechanical means for lowering & leveling the ground without blasting for all works other than foundation in Ordinary/Soft rock & depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work **In Ordinary/Soft rock upto 300 mm depth : The rate is printed as Rs.327.00/m3**	Earth work in surface excavation by mechanical means for lowering & leveling the ground without blasting for all works other than foundation in Ordinary/Soft rock & depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work **In Ordinary/Soft rock upto 300 mm depth : The rate is corrected as Rs.271.00/m3**
3	1	2.2.3.2	16	M 30 Design Mix Using 20 mm and down size graded crushed coarse aggregates with 20% partial replacement with Recycled concrete aggregate (RCA)	**Deleted as per IS 383:2016 Table : 1**
4	1	2.2.4.2	16	M 35 Design Mix Using 20 mm and down size graded crushed coarse aggregates with 20% partial replacement with Recycled concrete aggregate (RCA)	**Deleted as per IS 383:2016 Table : 1**
5	1	2.2.5.2	16	M 40 Design Mix Using 20 mm and down size graded crushed coarse aggregates with 20% partial replacement with Recycled concrete aggregate (RCA)	**Deleted as per IS 383:2016 Table : 1**

SEBC

KARNATAKA PUBLIC WORKS DEPARTMENT

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7	2	8.16.1	43	Providing 12 mm thick plain cement mortar bands in cement mortar 1:4 (1 cement : 4 fine sand):Flush Band including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.	
8	2	8.16.2	43	Providing 12 mm thick plain cement mortar bands in cement mortar 1:4 (1 cement : 4 fine sand):Sunk Band including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.	**Deleted**
9	2	8.16.3	43	Providing 12 mm thick plain cement mortar bands in cement mortar 1:4 (1 cement : 4 fine sand):Raised Band including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.	**Deleted**
10	2	8.16.4	44	Providing 12 mm thick plain cement mortar bands in cement mortar 1:4 (1 cement : 4 fine sand): Moulded Band including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.	**Deleted**
11	2	9.3.2	59	Providing Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement :3 coarse sand), finished with a floating coat of neat cement.15 mm thick : **The rate is printed as Rs.422.00/m2**	The rate is corrected as Rs.394.00/m2
12	2	9.31	64	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a **minimum compressive strength of 281 kg per m2** over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level , including cost of materials, labour and Usage charges of machinery complete as per specifications.	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a **minimum compressive strength of 30MPa as per IRC SP 63:2018 & IS 15658** over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level , including cost of materials, labour and Usage charges of machinery complete as per specifications.

GEBC

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13	2	9.32	64	**compressive strength of 281 kg per m2** over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and Usage charges of machinery complete as per specifications.	vibrator having 3 tons [illegible] final compaction of paver surface joints into its final level, including cost of materials, labour and [illegible] of machinery complete as per specifications.
14	2	9.38	65	**Providing skirting, dadooing, rises of steps with white glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. The rate is printed as Rs.1963.00/m2**	The Rate is corrected as Rs. 983.00/m2
15	2	9.39	65	**Providing skirting, dadooing, rises of steps with coloured glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. The rate is printed as Rs.2075.00 /m2**	The Rate is corrected as Rs. 1045.00 /m2
16	2	9.41.1	65	**Providing and laying Polished Marble flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. Indian Marble Flooring The rate is printed as Rs. 2887.00/m2**	The rate is corrected as Rs.3175.00/m2
17	2	9.41.2	65	**Providing and laying Polished Marble flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. :Italian Marble Flooring The rate is printed as Rs. 5169.00/m2**	The rate is corrected as Rs.5686.00/m2

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18	2	11.11.2	78	doors,windows and ventilators, beading and all members such as F7D,F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment). Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately) including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge. **Unit is Printed as m2**	
19	2	12.16	100	Providing and fixing in position fully panelled Teak wood shutters for doors with , stiles and ralls of 35mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures) **The rate is printed as Rs.9479.00/m2**	The Rate is corrected as Rs. 8789.00 /m2
20	2	12.53	105	Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm for stiles and 15x15mm for top & bottom ralls, covered with heat moulded PVC C channel of 5mm thick sheet & 30 x 50mm wide to form stiles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the stiles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 mm Aluminium hinges. **The rate is printed as Rs. 287.00/m2**	The rate is corrected as Rs.2847.00/m2
21	2	12.54	105	Providing & fixing factory made PVC Door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm long brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufacturers specification & direction of Engineer-in-charge. **The unit is printed as m2**	The unit is corrected as 'm'

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22	2	12.57	106	frame alround door shutters covered with cross bonded wooden sheets (core veneer) hot pressed and fastened on both sides of the door useing liquid phenol formaldehyde resin as per IS specifications 2202 (part-I) 1991. from manufacturer complete as per spcification.	
22.1	2	12.57.4	106	35 mm thick both side Teak **The rate is printed as Rs. 2333.00/m2**	The rate is corrected as Rs.3921.00/m2
22.2	2	12.57.7	106	40 mm thick both side Teak **The rate is printed as Rs.3860.00/m2**	The rate is corrected as Rs.4044.00/m2
22.3	2	12.57.8	106	40 mm thick one side teak and one side commercial **The rate is printed as Rs.3249.00/m2**	The rate is corrected as Rs.3653.00/m2
22.4	2	12.57.9	106	40 mm thick both side commercial **The rate is printed as Rs. 2833.00/m2**	The rate is corrected as Rs.3298.00/m2
23	2	19.27.1	165	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material to the appropriate disposal area as per direction of Engineer-in-charge. G.S. Sheet **The rate is printed as Rs. 833.00/m2**	The rate is corrected as Rs.83.00/m2
24	2	19.27.2	165	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material to the appropriate disposal area as per direction of Engineer-in-charge. Asbestos cement sheet **The rate is printed as Rs. 388.00/m2**	The rate is corrected as Rs.39.00/m2
25	2	20.9	173	Providing and fixing 16 mm M.S. Fan clamps of standard shape : **The rate is printed as Rs. 3641.00/each**	The rate is corrected as Rs.439.00/each
26	2	20.10	174	Replacing granite stone slabs 100mm to 150mm thick in roofing **: The rate is printed as Rs. 419.00/m2**	The rate is corrected as Rs.783.00/m2
27	2	20.11.1.1	174	Renewing wooden beams in roofs including making good the holes in walls and painting with oil type wood preservative of approved brand and manufacture complete, including removal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge. Sal wood beams **The unit is printed as 'm2'**	The unit is corrected as 'm3'
28	2	20.11.2.2	174	Renewing wooden beams in roofs including making good the holes in walls and painting with oil type wood preservative of approved brand and manufacture complete, including removal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge. Hollock wood beams (Jungle wood) **The unit is printed as 'm2'**	The unit is corrected as 'm3'

SE&C

KARNATAKA PUBLIC WORKS DEPARTMENT

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29	2	20.14	174	**The rate is printed as Rs. 18.00/ kg**	
30	2	20.17.1	174	Renewing Wrought iron or M.S. Wheel or roller of steel door or gate and fitting and fixing the same with necessary clamps, nuts and bolts/ welding and erection etc. complete. Wheel 50 mm dia and below **The rate is printed as Rs.246.00/No**	The Rate is corrected as Rs. 136 .00/ No
31	2	20.17.2	174	Renewing Wrought iron or M.S. Wheel or roller of steel door or gate and fitting and fixing the same with necessary clamps, nuts and bolts/ welding and erection etc. complete. Wheel above 50 mm dia **The rate is printed as Rs.185.00/No**	The Rate is corrected as Rs. 216.00/No.
32	2	20.19	175	Brick work with common burnt clay bricks of class designation 5.0 in mud mortar **The rate is printed as Rs.1487.00/m3**	The Rate is corrected as Rs. 7638.00/m3
33	2	20.20.1.1	175	Panelled or panelled & glazed shutters :Superior class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws. **The unit is printed as 'm3'**	The unit is corrected as 'm2'
34	2	20.20.1.2	175	Providing and fixing 25 mm thick shutters for cup board etc. :Panelled or panelled & glazed shutters :Ist class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws. **The unit is printed as 'm3'**	The unit is corrected as 'm2'
35	2	20.22.1	175	Providing and fixing brass curtain rods of wall thickness 1.25 mm with two brass brackets fixed with brass screws and wooden plugs etc. wherever necessary complete. 20 mm diameter **The rate is printed as Rs.875.00/m**	The rate is corrected as Rs. 283.00/m

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				The rate is printed as Rs.437.00/m	
37	2	20.44.1	178	Providing & fixing White vitreous china water closet squatting pan (Indian type) along with "S" or "P" trap including dismantling of old WC seat and "S" or "P" trap at site complete with all operations including all necessary materials, labour and disposal of dismantled material i/c malba, all complete as per the direction of Engineer-in charge. Long pattern W.C Pan of size 580x440 mm **The rate is printed as Rs.5367.00/each**	The rate is corrected as Rs. 2790.00/each
38	2	20.44.2	178	Providing & fixing White vitreous china water closet squatting pan (Indian type) along with "S" or "P" trap including dismantling of old WC seat and "S" or "P" trap at site complete with all operations including all necessary materials, labour and disposal of dismantled material I/c malba, all complete as per the direction of Engineer-in charge. Orissa pattern W.C Pan of size 580x440 mm **The rate is printed as Rs.6134.00/each**	The rate is corrected as Rs. 3557.00/each
39	2	20.45	178	Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 300 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-in-charge **The rate is printed as Rs.100.00/each**	The rate is corrected as Rs. 167.00/each
40	2	20.47	178	Taking out existing wooden door shutter, repair by cutting, painting etc. and refixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge. **The unit is printed as 'm2'**	The unit is corrected as 'each'
41	2	20.55	179	Cleaning and washing of stone masonry wall surface with nitric acid including cost of materials, labour, complete as per specifications. **The rate cell is left blank.**	The rate is corrected as Rs. 5.00/m2
42	2	20.73	181	Renewing Honne wood battens in roof including making good the holes in walls, removal of rubbish to the dumping round with a lead upto 50 m including cost of materials, labour, complete as per specifications. **Rate is printed as Rs. 14279 .00/ m2**	The unit is corrected as 'm3' and Rate is corrected as Rs.86066.00/m3

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43	2	20.74	181	with a lead upto ... complete as per specifications. **Rate is printed as Rs.12559 .00/ m2**	
44	2	20.75	181	Renewing Sal wood battens in roof including making good the holes in walls, removal of rubbish to the dumping round with a lead upto 50 m including cost of materials, labour, complete as per specifications. **Rate is printed as Rs. 11026.00 / m2**	The unit is corrected as 'm3' and Rate is corrected as Rs.58416.00/m3
45	2	20.79	181	Supplying and fixing new teak wood beads wherever necessary including cost of materials, labour, complete as per specifications. **Rate is printed as 502.00 / m2**	The unit is corrected as 'm' and Rate is corrected as Rs.50.00/m
46	2	20.80	181	Supplying and fixing new Honne wood beads wherever necessary including cost of materials, labour, complete as per specifications. **Rate is printed as 364 / m2**	The unit is corrected as 'm' and Rate is corrected as Rs.36.00/m
47	2	20.81	181	Removing the glazed tiles in patches in area exceeding 10 tiles and not exceeding 5 sqm including removing old tiles preparing surfaces and laying or setting new or old tiles complete including cost of materials, (excluding cost of tiles) labour, complete as per specifications. **Rate is printed as Rs.1754.00 / m2**	Rate is corrected as Rs.909.00/m2
48	2	20.82	181	Removing the mosaic tiles in patches in area exceeding 10 tiles and not exceeding 5 sqm : **The rate is printed as Rs.1550.00/m2**	The rate is corrected as Rs. 705.00/m2
49	2	20.84	182	Cutting out cracks of roof terrace to V - section cleaning out and filling solidly with a hot mixure of bitumen and clean dry sand+ 1:1 by weight including cost of materials, labour, complete as per specifications. **Rate is printed as Rs.8.00/ m2**	Rate is corrected as Rs.76.00/m2
50	2	20.95	183	Cleaning surface drains including removing of dirt dust etc., using suitrable soap powder , coconut broomstick, squeezers / wipers/ rubber brushes, coir brushes, plastric brushes, mugs, booster pumps with portable arrangement, hose pipe etc., complete **Unit is printed as m2**	Unit is corrected as m

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52	2	20.98	183	Providing Mangalore Ridge tiles set in C.M. 1:2 and pointed with C.M 1:2.: **The rate is printed as Rs.330.00/m**	The rate is corrected as Rs. 216.00/m
53	2	20.99	183	Fixing doors, window and ventilators in walls. **Unit is printed as m**	Unit is corrected as each
54	2	20.100	183	Supplying and fixing new Mangalore tiles on existing reepers. **Unit is printed as m**	Unit is corrected as m2
55	2	20.102	183	Repairs to roof with available corrugated zinc sheets/ A.C.sheets with new J bolts, screws and washers etc., on existing reeper and rafters. **Unit is printed as m**	Unit is corrected as m2
56	2	20.109	183	Repairs to existing aluminium partition including glass,board, lock, handle, beading etc cost of all material,labour, complete as per specifications. **Rate is printed as Rs. 1642.00/ m2**	Rate is corrected as Rs.2051.00/m2
57	3	3.10	16	Underground drainage at edge of Pavement for Urban Roads **The unit is printed as 'm2'**	The unit is corrected as 'm'
58	3	8.33	62	Policeman Umbrella **The rate is printed as Rs. 3254.00/each**	**Deleted**
59	3	8.34	62	Portable Barricade in Construction Zone **The rate column is left blank.**	The rate is updated as Rs.3253.00/each
60	3	9.3	71	Ref. to MoRT&H Spec is left blank	Corrected & to refer MoRT&H Section 1600
61	3	13.4	99	Providing weep holes in Brick masonry/Plain/ Reinforced concrete abutment, wing wall/ return wall with PVC Pipe 110mm outer dia at 2 kg per m2 , extending through the full width of the structure with slope of 1V :20H towards drawing face. Complete as per drawing and Technical specifications : **The unit is printed as No./m**	The unit is corrected as 'm'

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CALCULATION OF MATERIALS FOR GRILL AT B.B.M.P HEAD OFFICE PREMISES, N.R SQUARE, BANGALORE.

icating, providing and erecting in position of MS Hot Dip Galvanized Sq. Hallow Poles of 132 x Heavy gauge of length 3000mm with MS. Hot dip galvanized grill work as per approved design drawing of chief architect. Using 12x75mm galvanized flat for alround frame and 20mm x 20mm anized-forged design with square for for vertical at 150mm C/C as shown in the drawing ding providing forged ornamental arrowhed at top and bottom. The work is inclusive of ughing flat, square rods, placing welding all the joints, including grinding, finishing 2 coats of corrosive paint over one coat of metal primer. The rate is inclusive of all materials like MS. ow galvanized pipe, flats, forged square rods, cost of labour for all items of work cost painting, ding, cutting, grinding with all lead and lift as per specification including loading and unloading cost and conveyance of all materials, labour, machinery and incidental charges for the sucessful npletion of the work as per the direction Engineer-in-charge of the work.

Area Considered: 6.23 Mtr. x 2.10 Mtr. = 13.08 Smt.

20mm x 20mm Sq. Rod / 3.14 Kg/Rmt.

2.05 Mtr. x	37 Nos. =	75.85 Rmt.	
0.33 Mtr. x	40 Nos. =	13.20 Rmt.	
0.20 Mtr. x	2 Nos. =	0.40 Rmt.	
		89.45 Rmt.	
Wastage - 5%		4.47	
		93.92 Rmt. @	3.14 Kg/Rmt. = 294.92 Kgs.

75x12mm Flat / 7.10 Kg/Rmt.

5.70 Mtr. x	2 Nos. =	11.40 Rmt.	
1.67 Mtr. x	2 Nos. =	3.34 Rmt.	
0.10 Mtr. x	8 Nos. =	0.80 Rmt.	
0.20 Mtr. x	6 Nos. =	1.20 Rmt.	
		16.74 Rmt.	
Wastage - 5%		0.84	
		17.58 Rmt. @	7.10 Kg/Rmt. = 124.80 Kgs.

3 **12mm x 6mm Flat:**

0.19 x 2 x 20 =		7.60 Rmt.	
Wastage - 5%		0.38	
		7.98 Rmt. @	0.56 Kg/Rmt. = 4.47 Kgs.

4 **65 x 65 x 6mm 'L' angle / 5.80 Kg/Rmt.**

0.80 Mtr. x	4 Nos. =	3.20 Rmt.	
0.60 Mtr. x	4 Nos. =	2.40 Rmt.	
0.36 Mtr. x	2 Nos. =	0.72 Rmt.	
		6.32 Rmt.	
Wastage - 5%		0.32	
		6.64 Rmt. @	5.80 Kg/Rmt. = 38.49 Kgs.

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132mm x 132mm Sq. Pipe / 18.71 Kg/Rmt.

3.00 Mtr. x 2 Nos. = 6.00 Rmt.
Wastage - 5% 0.30
6.30 Rmt. @ 18.71 Kg/Rmt. = 117.87 Kgs.

Forging Design

Inter Bottom Design:	38 Nos. x 1.0 Kg each =	38.00 Kgs.
Big Design:	19 Nos. x 1.0 Kg each =	19.00 Kgs.
Small Design:	20 Nos. x 0.50 Kg each =	10.00 Kgs.
Small Arch Design:	38 Nos. x 0.25 Kg each =	9.50 Kgs.
		657.04 Kgs.

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Data Sheet

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Bruhat Bangalore Mahanagara Palike

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ATE ANALYSIS OF GRILL AT B.B.M.P HEAD OFFICE PREMISES, N.R. SQUARE, BANGALORE.

Area Considered: 6.23 Mtr. x 2.10 Mtr. = 13.08 Smt.

Cost of Sq. Rod, Flat and Angle:				
294.92+124.80+4.47+38.4	462.68 Kgs. @	60.00	Per Kg. =	27,760.80
Cost of Sq.Pipe:	117.87 Kgs. @	60.00	Per Kg =	7,072.20
Forgings Design Cost:				
Center Bottom Design	38 Nos. @ Rs. 170.00 each =			6,460.00
Top Big Design	21 Nos. @ Rs. 100.00 each =			2,100.00
Top Small Design	18 Nos. @ Rs. 55.00 each =			990.00
Top Small Arch Design	42 Nos. @ Rs. 55.00 each =			2,310.00
Galvanizing of Flat, Sq. Rod, Pipe and angle.	657.04 Kgs. @	25.00	Per Kg =	16,426.00
Labour charges for fabrication of grill including cutting, straightening, placing in position and welding wherever necessary with gringing, chipping etc.,	657.04 Kgs. @ (60% of the Materials Cost)	36.00	Per Kg =	23,653.44
Transportation charges: a) Raw materials from Market to Work shop	657.04 Kgs. @	0.50	Per Kg =	328.52
b) Finished Grill from Workshop to Work site	657.04 Kgs. @	1.00	Per Kg =	657.04
Erection and fixing in position whole grill using crane hoist, stand supports etc.,	657.04 Kgs. @	15.00	Per Kg =	9,855.60
Synthetic enamel painting two coats of approve make & colour over a base cost of red-oxide primer. (P-105. I.No.15.73&15.74 - SR 2010-11)	1 x 13.08 Smt. @ Rs. 94.33 per Smt.=			1,233.84
				98,847.44
10% Tax & Over Head charges				9,884.74
10% Contractor Profit.				9,884.74
1% Labour welfate				988.47
				119,605.40

for Estimate purpose only

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Chief Engineer

Bruhat Bangalore Mahanagara

Unit Rate = 119,605.40 / 13.08/Smt. = 9,144.14 / Smt.

Say: Rs. 9,144.00 / Smt.

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CALCULATION OF MATERIALS FOR GATE AT B.B.M.P HEAD OFFICE PREMISES, N.R. SQUARE, BANGALORE.

abricating, providing and erecting in position Hot dip galvanised Gate Using 72 x 72 x 4mm Sq. GI ipe frame with top pipe bending in heavy duty hydraulic press with sand packing and hot bending to orm double arch as per drawing profile, 20mm hot dip galvanised sq. rod for verticals at 150mm c/c, as hown in the drawing including providing hot dip galvanised forged ornamental design in between q rods and heads at top, middle and bottom. Intermediate supports of 75x12mm and 50 x 6mm arch ent to hot dip galvanised flats. the work is inclusive of throughing GI flat GI sq. rods, placing, welding ll the joints including grinding, finishing metal patty, painting two coats enamel painting. The rate is nclusive of all materials like GI sq. pipe, GI. Sq. rods, GI forged designs etc., heavy duty hinges are nade out of 75mm solid sq. block assembled with 20mm dia bearing in three places for each flap. Heavy duty locking arrangements at tow places including cost of labour, painting, erecting charges using hoist pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the Engineer-in-charge of the work.

Area Considered: 2.5 Mtr. x $\frac{3.0 + 3.61}{2}$. = 8.265 Smt.

1 **72x72mm x 4.8mm Sq. Pipe**

3.61 Mtr. x	1 Nos. =	3.61 Rmt.	
3.00 Mtr. x	1 Nos. =	3.00 Rmt.	
2.56 Mtr. x	1 Nos. =	2.56 Rmt.	
2.50 Mtr. x	1 Nos. =	2.50 Rmt.	
		11.67 Rmt.	
Wastage - 5%		0.58	
		12.25 Rmt. @	9.66 Kg/Rmt. = 118.37 Kgs.

2 **38x38mm x 4.0mm Sq. Pipe**

3.50 Mtr. x	1 Nos. =	3.50 Rmt.	
2.85 Mtr. x	1 Nos. =	2.85 Rmt.	
		6.35 Rmt.	
Wastage - 5%		0.32	
		6.67 Rmt. @	3.95 Kg/Rmt. = 26.34 Kgs.

3 **20mm x 20mm Sq. Rod / 3.14 Kg/Rmt.**

2.85 Mtr. x	2 Nos. =	5.70 Rmt.	
2.87 Mtr. x	1 Nos. =	2.87 Rmt.	
2.89 Mtr. x	1 Nos. =	2.89 Rmt.	
2.92 Mtr. x	1 Nos. =	2.92 Rmt.	
2.97 Mtr. x	1 Nos. =	2.97 Rmt.	
3.05 Mtr. x	1 Nos. =	3.05 Rmt.	
3.10 Mtr. x	1 Nos. =	3.10 Rmt.	
3.18 Mtr. x	1 Nos. =	3.18 Rmt.	
3.26 Mtr. x	1 Nos. =	3.26 Rmt.	
3.35 Mtr. x	1 Nos. =	3.35 Rmt.	
3.41 Mtr. x	1 Nos. =	3.41 Rmt.	
0.50 Mtr. x	13 Nos. =	6.50 Rmt.	
0.25 Mtr. x	13 Nos. =	3.25 Rmt.	
0.17 Mtr. x	8 Nos. =	1.36 Rmt.	
0.05 Mtr. x	8 Nos. =	0.40 Rmt.	
0.36 Mtr. x	16 Nos. =	5.76 Rmt.	
		53.97 Rmt.	
Wastage - 5%		2.70	
		56.67 Rmt. @	3.14 Kg/Rmt. = 177.94 Kgs.

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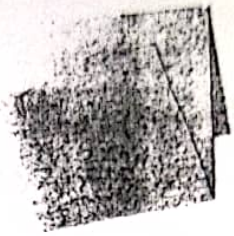
4 75x12mm Flat / 7.10 Kg/Rmt.

2.30 Mtr. x	2 Nos. =	4.60 Rmt.			
		4.60 Rmt.			
Wastage - 5%		0.23			
		4.83 Rmt. @	7.10 Kg/Rmt. =	34.29 Kgs.	



5 50mm x 6mm Flat:

2.10 Mtr. x	4 Nos. =	8.40 Rmt.			
0.90 Mtr. x	2 Nos. =	1.80 Rmt.			
0.60 Mtr. x	2 Nos. =	1.20 Rmt.			
		11.40 Rmt			
Wastage - 5%		0.57			
		11.97 Rmt. @	3.15 Kg/Rmt. =	37.71 Kgs.	

6 12mm x 6mm Flat:

0.19 x 2 x 8	=	3.04 Rmt.			
Wastage - 5%		0.15			
		3.19 Rmt. @	0.56 Kg/Rmt. =	1.79 Kgs.	

7 Forgings Designs, Hinges & Locking, Anchoring Base Plate & Gusset Plate. 180.00 Kgs.

576.43 Kgs.

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Bruhat Bangalore Mahanagara Palike

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RATE ANALYSIS OF GATE AT B.B.M.P HEAD OFFICE PREMISES, N.R. SQUARE, BANGALORE.

Area Considered 2.5 Mtr. x $\frac{3.0 + 3.61}{2}$ = 8.265 Smt

1	Cost of Sq. Rod, Gusset Plate, Anchor Base plate:	296.73 Kgs. @	60.00	Per Kg =	17,803.51
2	Cost of Sq.Pipe:	144.71 Kgs. @	60.00	Per Kg =	8,682.33
3	Forgings Design Cost:				
	Center Design	33 Nos. @ Rs. 170.00 each =			5,610.00
	Top Big Design	8 Nos. @ Rs. 100.00 each =			800.00
	Top Small Design	47 Nos. @ Rs. 55.00 each =			2,585.00
	Top Small Arch Design	16 Nos. @ Rs. 55.00 each =			880.00
4	Ornamental turned pipe for gap filling	1 No @	Rs.1,000=00 each		1,000.00
5	Galvanizing of Flat, Sq. Rod, Pipe and Forgings.				
	Sq. Pipe: 144.71				
	Sq. Rod, Flat 251.73				
	Forgings 70.00				
	Hinges and locking 65.00				
	Anchoring base plate & Gusset plate: 45.00				
		576.44 Kgs. @	25.00	Per Kg =	14,410.88
6	Labour charges for fabrication of gate including cutting, straightening, placing in position and welding wherever necessary including hot bending of sq pipe with sand filling in hydraulic machine with grinding, chipping etc.,	576.44 Kgs. @	36.00 (60% of the Material cost)	Per Kg =	20,751.66
7	Labour charges for fixing including crane hoist, stand supports, scaffolding etc.,	576.44 Kgs. @	10.00	Per Kg =	5,764.35
8	Transportation charges:				
	a) Raw materials from Market to Work shop	576.44 Kgs. @	0.50	Per Kg =	288.22
	b) Finished Grill from Workshop to Work site	576.44 Kgs. @	1.00	Per Kg =	576.44
9	Heavy duty lathe turned Hinges & hardened shafts.	3.00 Sets @	1,000.00	Per set =	3,000.00
10	Heavy duty locking arrangement (Center & Bottom)	2.00 Nos. @	750.00	each.	1,500.00
11	Synthetic enamel painting two coats of approve make & colour over a base cost of red-oxide primer. (P-105. I.No.15.73&15.74 - SR 2010-11)	2 x 8.265 Smt. @ Rs. 94.33 per Smt.=			1,559.27
					85,211.65
	10% of Tax & over Head charges				8,521.17
	10% of Contractor Profit				8,521.17
	1% Labour welfare and cess.				852.12
					103,106.10

$\frac{103,106.10}{8.265/\text{Smt.}}$ = 12,475.03 / Smt.

Say: Rs. 12,475.00/ Smt.

Rate for Estimate purpose only

Approved

Chief Engineer
Bruhat Bangalore Mahanagara P

ASST. EXECUTIVE ENGINEER
MPED (C)
Bruhat Bengaluru Mahanagara Palike

EXECUTIVE ENGINEER
MPED (C)
Bruhat Bengaluru Mahanagara Palike

JA/MPED

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Chief Engineer

Bangalore Mahanagara Palike

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ಕರ್ನಾಟಕ ಸರ್ಕಾರ
ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರ ಕಚೇರಿ
ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ
ಬೆಂಗಳೂರು ವೃತ್ತ, ಬೆಂಗಳೂರು

Tel No.22875794, 22872801
e-mail - sebgl@kpwd.gov.in

ಸಂ:ಎಸ್‌ಇಬಿಸಿ:ಎಇ–3/2021–22 1099 ದಿನಾಂಕ 13 MAY 2022

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು,
ಲೋಇ ವಿಭಾಗ, **ಬೆಂಗಳೂರು**
ರಾಮನಗರ : **ರಾಮನಗರ ವಿಶೇಷ**
ಕೋಲಾರ : **ಚಿಕ್ಕಬಳ್ಳಾಪುರ :**
ತುಮಕೂರು : **ಮಧುಗಿರಿ**

ಮಾನ್ಯರೆ,

ವಿಷಯಃ 2022–23 ನೇ ಸಾಲಿಗೆ ಅನ್ವಯಿಸುವಂತೆ ಆರ್‌ಎಂಸಿ ಬಳಸಿ ಎಂ–30 ಗ್ರೇಡ್‌ನ ಸಿಮೆಂಟ್ ಕಾಂಕ್ರೀಟ್ ರಸ್ತೆ ನಿರ್ಮಾಣದ ಡೇಟಾ ದರವನ್ನು ಅನುಮೋದಿಸುವ ಬಗ್ಗೆ.

ಉಲ್ಲೇಖಃ1. ಕಾಪಾಇಂ, ಲೋಇ ಮಧುಗಿರಿ ವಿಭಾಗ ರವರ ಪತ್ರ ಸಂ: 146 ದಿ:09–05–2022
2. ಮೆ: ಅಲ್ಟ್ರಾಟೆಕ್ ಸಿಮೆಂಟ್ಸ್ ರವರು ನೀಡಿರುವ ದರಗಳಪಟ್ಟಿ ದಿ:11–05–2022
3. ಮೆ: ಅಪರ್ಣ ಆರ್‌ಎಂಸಿ ರವರು ನೀಡಿರುವ ದರಗಳ ಪಟ್ಟಿ ದಿ:12–05–2022
4. *ದಿ:13–05–2022 ರಂದು* ಎಂ–30 ಗ್ರೇಡ್‌ನ ಸಿಮೆಂಟ್ ಕಾಂಕ್ರೀಟ್ ರಸ್ತೆ ನಿರ್ಮಾಣದ ಡೇಟಾ ದರವನ್ನು ಪರಿಷ್ಕರಿಸುವ ಬಗ್ಗೆ *ನಡೆಸಿದ ಸಭೆಯ ಸಭಾ ನಡಾವಳಿಗಳು*

* * * *

ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ, ಬೆಂಗಳೂರು ವೃತ್ತ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಆರ್‌ಎಂಸಿಯನ್ನು ಬಳಸಿ ಎಂ–30 ಅನ್ನು ಸಿಮೆಂಟ್ ಕಾಂಕ್ರೀಟ್ ರಸ್ತೆಗೆ ಅವಶ್ಯವಿರುವ ಅಂಶವು ಇಲ್ಲದಿರುವ ಬಗ್ಗೆ ಪ್ರಸ್ತಾಪಿಸಿ ಪ್ರತಿಷ್ಠಿತ ಆರ್‌ಎಂಸಿ ಉತ್ಪಾದಕರಿಂದ ದರಗಳನ್ನು ಪಡೆದು, ಆರ್‌ಎಂಸಿ ಎಂ–30 ಗ್ರೇಡ್ ಕಾಂಕ್ರೀಟ್ ರಸ್ತೆ ನಿರ್ಮಿಸಲು ಡೇಟಾ ತಯಾರಿಸಲಾಗಿದೆಯೆಂದು ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು, ಲೋಇ ಮಧುಗಿರಿ ವಿಭಾಗ ರವರು ಉಲ್ಲೇಖ (1) ರ ಪತ್ರದಲ್ಲಿ ಪ್ರಸ್ತಾವನೆ ತಯಾರಿಸಿ ಅನುಮೋದನೆಗಾಗಿ ಸಲ್ಲಿಸಿರುತ್ತಾರೆ. ಅದರಂತೆ, ಉಲ್ಲೇಖ (2) ಮತ್ತು (3)ರಂತೆ ಪ್ರತಿಷ್ಠಿತ ಆರ್‌ಎಂಸಿ ಉತ್ಪಾದಕರು ನೀಡಿರುವ ದರಗಳನ್ನು ಪರಿಶೀಲಿಸಲಾಗಿದ್ದು, ಉಲ್ಲೇಖ (4) ರಲ್ಲಿ ನಡೆಸಿದ ಸಭೆಯಲ್ಲಿನ ತೀರ್ಮಾನದಂತೆ,

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ರೂಪಾಂಶಿಯನ್ನು ಬಳಸಿ ಎಂ-೩೦ ಗ್ರೇಡ್ ಕಾಂಕ್ರೀಟಿನ ರಸ್ತೆ ನಿರ್ಮಿಸಲು ಈ ಕೆಳಗಿನಂತೆ ವಿಶಿಷ್ಟ ವಿವರಣೆಯನ್ನು ಮತ್ತು ದರವನ್ನು ಷರತ್ತುಗಳೊಂದಿಗೆ ಅನುಮೋದಿಸಲಾಗಿದೆ.

.No.	Description of Item	Unit	Rate in Rs. (Excluding GST)
	Construction of un-reinforced plain cement concrete pavement using RMC M-30 grade using Cement 270kgs & GGBS 90kgs (70:30 proportion) from ISO 9001 accredited plants as per IS 4926-2003 with mix design procedure and thickness as per design, over a prepared sub base. The superplastisiser confirming to IS9103-1999 Reaffirmed-2008 ,Coarse aggregates and Fine aggregate confirming to IS:383-2016, transported to site, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work). Spreading the concrete with shovels, rackers and compacted using needle, suitable plate vibrator and finished in a continuous operation including provision of separation membrane and Hessian cloth finishing to lines and grades complete including cost of all materials, labour, all lead & lift, loading charges as per specification & direction of Engineer-incharge of the work.. (Excluding the cost of groove cutting)	m^3	6668.00

ಷರತ್ತುಗಳು :

1. ವಿಶಿಷ್ಟ ವಿವರಣೆಯನ್ನು ರಸ್ತೆ ಕಾಮಗಾರಿಗೆ ಮಾತ್ರ ಬಳಸಿಕೊಳ್ಳುವುದು.
2. Groove cutting ಅಂಶವನ್ನು ಐಆರ್‌ಸಿ–57:2018 ಮತ್ತು MoRTH 602.6 ರಂತೆ ನಿರ್ವಹಿಸುವುದು.

ತಮ್ಮ ವಿಶ್ವಾಸಿ

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು,
ಲೋಇ ಬೆಂಗಳೂರು ವೃತ್ತ.

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ಫೋ.22875794, 22872801
ಫ್ಯಾಕ್ಸ್ 08022374092
ಇ-mail - dlkpwd@gmail.com

ಕರ್ನಾಟಕ ಸರ್ಕಾರ
ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರ ಕಚೇರಿ
ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ
ಬೆಂಗಳೂರು ವೃತ್ತ, ಬೆಂಗಳೂರು

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು, ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ, ಬೆಂಗಳೂರು ವೃತ್ತ, ಬೆಂಗಳೂರು ರವರ ಕಚೇರಿ ನಡಾವಳಿಗಳು

ವಿಷಯ:	2021–22ನೇ ಸಾಲಿನ ಸಂಪುಟ–1,2 ಮತ್ತು 3ರ ದರಪಟ್ಟಿಗಳಲ್ಲಿ ಸ್ಟೀಲ್ ಸಂಬಂಧಿತ ದರಗಳನ್ನು 2022–23 ನೇ ಸಾಲಿನ ಮೊದಲನೇ ತ್ರೈಮಾಸಿಕ ಅವಧಿಗೆ ಪರಿಷ್ಕರಿಸುವ ಬಗ್ಗೆ.
ಉಲ್ಲೇಖ	1. ಸರ್ಕಾರ ಆದೇಶ ಸಂಖ್ಯೆ : ಲೋಇ 51 ಆರ್.ಡಿ.ಎಫ್ 2019 ದಿನಾಂಕ 18–03–2022 2. ಈ ಕಚೇರಿ ಜ್ಞಾಪನಾ ಪತ್ರ ದಿನಾಂಕ : 31–03–2022 3. ಈ ಕಚೇರಿ ಆದೇಶ ಸಂ. 8829 ದಿನಾಂಕ 01–04–2022 4. ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು, ಲೋಇ ವೃತ್ತ ಬಳ್ಳಾರಿ ಪತ್ರ ಸಂ.26 ದಿ. 05–04–2022 5. ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು, ಲೋಇ ವೃತ್ತ ಮಂಗಳೂರು ರವರ ಇಮೇಲ್ ದಿನಾಂಕ 06–04–2022 6. ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು, ಲೋಇ ವೃತ್ತ ಧಾರವಾಡ ರವರ ಪತ್ರ ಸಂ.02 ದಿ.04.04.2022 7. ಎಂ.ಆರ್.ಪಿ.ಎಲ್ ರವರ ದರಗಳ ಪಟ್ಟಿ ದಿ. 01–04–2022 8. ಹಿನ್‌ಕಾಲ್ ರವರ ದರಗಳ ಪಟ್ಟಿ ದಿ. 01–04–2022 9. ಕಾಪಾಇಂ, ಲೋಇ ವಿಭಾಗ ಬೆಂಗಳೂರು ರವರ ಪತ್ರ ದಿನಾಂಕ 07–04–2022

ಪ್ರಸ್ತಾವನೆ:

2021–22ನೇ ಸಾಲಿನ ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ, ಸಂಪುಟ–1,2 ಮತ್ತು 3ರ ದರಪಟ್ಟಿಗಳ ಸಾಮಾನ್ಯ ಟಿಪ್ಪಣಿ ಸಂಖ್ಯೆ : 7ರ ಪ್ರಕಾರ ಸಿಮೆಂಟ್, ಸ್ಟೀಲ್ ಮತ್ತು ಬಿಟುಮಿನ್‌ಗಳ ಪರಿಷ್ಕೃತ ದರಗಳನ್ನು ಕೆಳಕಂಡ ಪನ್ನಿವೇಶದಲ್ಲಿ ಹೊರಡಿಸಬೇಕಾಗಿರುತ್ತದೆ.

"The prevailing market rates of cement & steel will be assessed and the basic rates shall be approved by the Superintending Engineer PWD & published quarterly i.e., 1st April, 1st July, 1st October & 1st January whenever the variation in price is more/less than 10% over the previously approved rates". Rates are to be calculated and issued for OPC, PPC, PSC, TMT Bars, Mild Steel and Structural Steel and Bitumen etc., The Superintending Engineer shall issue office memorandum with wide publicity and obtain rate from GST registered vendors.

ಉಲ್ಲೇಖ–(1)ರ ಸರ್ಕಾರದ ಆದೇಶದಲ್ಲಿ ಸೂಚಿಸಿರುವಂತೆ, ಉಲ್ಲೇಖ (2)ರಲ್ಲಿ ವಿತರಣಾ ದರಗಳನ್ನು ಗಧಿಪಡಿಸಲು ದರಗಳ ಮಾಹಿತಿಯನ್ನು ನೀಡಲು ಲೋಇ ವೃತ್ತ ಬಳ್ಳಾರಿ, ಮಂಗಳೂರು ಮತ್ತು ಧಾರವಾಡ ತ್ತಗಳನ್ನು ಕೋರಲಾಗಿರುತ್ತದೆ. ಅದರಂತೆ, ಉಲ್ಲೇಖ (4) ರಿಂದ (9)ರ ಮಾಹಿತಿಗಳನ್ನು ಆಧರಿಸಿ 2022–23ನೇ ಲಿನ ಮೊದಲನೇ ತ್ರೈಮಾಸಿಕ ಅವಧಿಗೆ ಸಿಮೆಂಟ್, ಸ್ಟೀಲ್ ಮತ್ತು ಬಿಟುಮಿನ್ ದರಗಳ ವ್ಯತ್ಯಾಸವನ್ನು ಕ್ಯಾಚಾರ ಮಾಡಲಾಗಿರುತ್ತದೆ. ಸಿಮೆಂಟ್ ಹಾಗೂ ಬಿಟುಮಿನ್ ದರಗಳಲ್ಲಿ ಶೇ. 10 ಕ್ಕಿಂತ ಹೆಚ್ಚು/ಕಡಿಮೆ ವ್ಯತ್ಯಯ ಡುಬರದ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ಪರಿಷ್ಕರಿಸುವ ಅಗತ್ಯವಿರುವುದಿಲ್ಲ. ಸ್ಟೀಲ್ ದರಗಳಲ್ಲಿ ಶೇ.10 ಕ್ಕಿಂತ ಹೆಚ್ಚು ವ್ಯತ್ಯಾಸ ಡು ಬಂದಿರುವ ಹಿನ್ನೆಲೆಯಲ್ಲಿ, ಎಲ್ಲಾ ವೃತ್ತಗಳ ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರುಗಳೊಂದಿಗೆ ಸಮಾಲೋಚಿಸಿ ಸ್ಟೀಲ್ ಗಳನ್ನು ಈ ಕೆಳಗಿನಂತೆ ಪರಿಷ್ಕರಿಸಲು ತೀರ್ಮಾನಿಸಲಾಗಿರುತ್ತದೆ.

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Sl No.	Material Component	Unit	Rate as per Vol.1 Common SR in Rs.	Revised Rate w.e.f 07-04-2022 in Rs. (Market Rate, All Inclusive of Taxes)
	Steel – TMT Fe 550	t	69857.00	86000.00
	Structural Steel	kg	70.00	90.00
	Mild Steel	kg	60.00	80.00

ದೇಶ ಸಂಖ್ಯೆ:ಎಸ್‌ಇಬಿಸಿ:ತಾಂಸ:ದರಪಟ್ಟಿ:2022–23 : 138 ದಿನಾಂಕ : 8 APR 2022

ಮೇಲಿನ ವಿವರಣೆಯಂತೆ ಪರಿಷ್ಕೃತ ಸ್ಟೀಲ್ ಸಂಬಂಧಿತ ದರಗಳನ್ನು ಪ್ರಕಟಿಸಿ *ದಿನಾಂಕ 07–04–2022*ರಿಂದ ಯಲ್ಲಿರುವಂತೆ ಆದೇಶ ಹೊರಡಿಸಿದೆ.

1ST QUARTER REVISION OF RATES FOR 2021-22 VOL.1, 2 & 3 SRs CONTINUED FOR 2022-23 W.E.F 07-04-2022

o.	Item No.	Unit	Rate as per 2021-22 SR w.e.f 18-03-2022	*Rates Excluding GST in Rs.* Revised Rate in Rs. w.e.f 07-04-2022.
	VOL.2			
	11.1	kg	91.00	113.00
	11.2	kg	95.00	115.00
	11.25.1	kg	97.00	115.00
	11.25.2	kg	108.00	133.00
	11.32	kg	88.00	106.00
	11.33	kg	83.00	100.00
	11.34A	kg	131.00	159.00
	11.34B	kg	143.00	171.00
	VOL.3			
	9.3	t	76376.00	94295.00
	12.2	t	112359.00	138200.00
	12.35	m3	51544.00	53332.00
	12.37	t	102615.00	127281.00
	12.51	m	8381.00	10321.00
	12.53	m	9507.00	11692.00
	12.55	t	84383.00	103931.00
	12.56	t	73392.00	96884.00
	13.1	t	83780.00	103329.00
0	13.2	t	72790.00	96272.00
1	13.15	t	143457.00	170071.00
2	14.1	t	83997.00	103518.00
3	14.12	m^3	28556.00	30351.00
4	14.24	t	146323.00	173454.00

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಲೋಇ ಬೆಂಗಳೂರು ವೃತ್ತ

ಯನ್ನು:

1. ಸರ್ಕಾರದ ಅಪರ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿಗಳು, ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ, ವಿಕಾಸ ಸೌಧ, ಬೆಂಗಳು
   ರವರ ಘನ ಮಾಹಿತಿಗಾಗಿ ಸಲ್ಲಿಸಿದೆ.

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ರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು, ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ, ವಿಕಾಸ ಸೌಧ, ಬೆಂಗಳೂರು ರವರ ಘನ
ಾಹಿತಿಗಾಗಿ ಸಲ್ಲಿಸಿದೆ.
ರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು, ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆ, ವಿಕಾಸ ಸೌಧ, ಬೆಂಗಳೂರು ರವರ ಘನ
ಾಹಿತಿಗಾಗಿ ಸಲ್ಲಿಸಿದೆ.
ರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು, ಸಣ್ಣ ನೀರಾವರಿ ಇಲಾಖೆ, ವಿಕಾಸ ಸೌಧ, ಬೆಂಗಳೂರು ರವರ ಘನ
ಾಹಿತಿಗಾಗಿ ಸಲ್ಲಿಸಿದೆ
ರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು, ಪಂಚಾಯತ್ ಇಂಜಿನಿಯರಿಂಗ್ ಇಲಾಖೆ, ಬೆಂಗಳೂರು ರವರ ಘನ
ಾಹಿತಿಗಾಗಿ ಸಲ್ಲಿಸಿದೆ.
ಘನ ಅಭಿಯಂತರರು, ಪ್ರಾಂಸಿ, ಬೆಂಗಳೂರು ರವರ ಘನ ಮಾಹಿತಿಗೆ ಸಲ್ಲಿಸುತ್ತಾ,ಇಲಾಖಾ *ವೆಬ್‌ಸೈಟ್‌ನಲ್ಲಿ*
ಪ್‌ಲೋಡ್ ಮಾಡಲು ಕೋರಿದೆ.
ುಖ್ಯ ಅಭಿಯಂತರರು, ಸಂಪರ್ಕ ಮತ್ತು ಕಟ್ಟಡಗಳು (ದಕ್ಷಿಣ, ಉತ್ತರ, ಈಶಾನ್ಯ ಮತ್ತು ಕೇಂದ್ರ) ರವರುಗಳ
ನ ಮಾಹಿತಿಗೆ ಸಲ್ಲಿಸಿದೆ.
ುಖ್ಯ ಅಭಿಯಂತರರು, ಬೆಸ್ಕಾಂ ಕೇಂದ್ರ ಕಚೇರಿ ಬೆಂಗಳೂರು ರವರ ಮಾಹಿತಿಗೆ ಸಲ್ಲಿಸಿದೆ.
ುಖ್ಯ ಅಭಿಯಂತರರು, ಗ್ರಾಮೀಣಾಭಿವೃದ್ಧಿ ಇಲಾಖೆ, ಬೆಂಗಳೂರು ರವರ ಮಾಹಿತಿಗೆ ಸಲ್ಲಿಸಿದೆ.
ರ್ದೇಶಕರು, ಇ-ಪ್ರೊಕ್ಯೂರ್‌ಮೆಂಟ್, ಬಹುಮಹಡಿಗಳ ಕಟ್ಟಡ, ಬೆಂಗಳೂರು ರವರ ಘನ ಮಾಹಿತಿಗೆ
ಲ್ಲಿಸುತ್ತಾ, *ಇ-ಪ್ರೋಕ್ ಪೋರ್ಟಲ್‌ನಲ್ಲಿ ಸದರಿ ದರಗಳನ್ನು ಅಪ್‌ಲೋಡ್ ಮಾಡಲು ಕೋರಿದೆ.*
ುಖ್ಯ ಅಭಿಯಂತರರು, ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ, ಬೆಂಗಳೂರು ರವರ ಮಾಹಿತಿಗೆ
ಲ್ಲಿಸಿದೆ.
ುಖ್ಯ ಅಭಿಯಂತರರು, ಬೆಂಗಳೂರು ಅಭಿವೃದ್ಧಿ ಪ್ರಾಧಿಕಾರ, ಬೆಂಗಳೂರು ರವರ ಮಾಹಿತಿಗೆ ಸಲ್ಲಿಸಿದೆ.
ಧೀಕ್ಷಕ ಅಭಿಯಂತರರು, ಲೋಇ ವೃತ್ತ, ಮೈಸೂರು, ಹಾಸನ, ಮಂಗಳೂರು, ಬಳ್ಳಾರಿ, ಕಲ್ಬುರ್ಗಿ, ಬೆಳಗಾವಿ,
ಾರವಾಡ ಮತ್ತು ಶಿವಮೊಗ್ಗ ರವರುಗಳ ಮಾಹಿತಿಗಾಗಿ ಇ-ಮೇಲ್ ಮುಖಾಂತರ ಕಳುಹಿಸಿದೆ.
ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು, ಗ್ರಾಮೀಣಾಭಿವೃದ್ಧಿ ಇಲಾಖೆ, ಬೆಂಗಳೂರು ರವರ ಮಾಹಿತಿಗಾಗಿ ಇ-ಮೇಲ್
ುಖಾಂತರ ಕಳುಹಿಸಿದೆ.
ರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು, ಲೋಇ ವಿಭಾಗ ಬೆಂಗಳೂರು, ರಾಮನಗರ, ರಾಮನಗರ ವಿಶೇಷ,
ೋಲಾರ, ಚಿಕ್ಕಬಳ್ಳಾಪುರ, ತುಮಕೂರು ಮತ್ತು ಮಧುಗಿರಿ ರವರ ಮಾಹಿತಿಗಾಗಿ ಇ-ಮೇಲ್ ಮುಖಾಂತರ
ಳುಹಿಸಿದೆ.
ಚೇರಿ ಪ್ರತಿ

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಲೋಇ ಬೆಂಗಳೂರು ವೃತ್ತ

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BRUHAT BENGALURU MAHANAGARA PALIKE

WorkComprehensive Development of Roads & Drains in Subhash Play Ground, nda Nagar, Baldwin School, Crazy park, BEML layout, Dwaraka West, Dwaraka nd Surrounding areas in W No.160 under PACKAGE- 2022-23 RRN-DIV-(09).

1350.00 lakhs

Salient Feautres of this work

Description	Qty	Unit	Length	Amount
Play Ground				
Removal of Debris	60.00	sqm	-	561060.00
Removal of unwanted Substance	37096.49	Cum	225.00	7202654.20
Earthwork	2878.18	Cum	225.00	857984.21
Earthwork for Foundation	323.23	Cum	342.50	96710.04
PCC	76.96	Cum	685.00	501666.40
SSM	192.40	Cum	685.00	1147500.52
Ruled Pointing	307.84	sqm	685.00	67724.12
Embackment	2878.18	Cum	225.00	1390619.43
Steel Work	19140.00	kgs	-	2863344.00
Chainlink Fencing	836.13	sqm	351.00	717399.54
Removing and Refixing of Slabs	16401.98	sqm	15988.50	1984639.88
Excavation				
Desiting	5543.89	Cum	15988.50	2015535.92
New Drain		Cum	830.00	
Plain cement concrete 1:3:6 mix	294.13	Cum	830.00	1861031.99
Reinforced cement concrete	296.03	Cum	830.00	2139006.49
T.M.T. steel reinforcement	18.45	ton	830.00	1914056.41

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Description	Qty	Unit	Length	Amount
Solid Blocks	3899.00	sqm	15988.50	4576251.61
Ruled Pointing	3899.00	sqm	15988.50	857779.12
Copping on Solid Block	367.77	Cum	15988.50	2397318.14
Bottom Slab 7.5cm thickness	3405.85	sqm	-	2527138.85
100 mm thickness BS Slab	7447.63	sqm	8274.40	6233662.96
One Line Dressing	13067.46	sqm	8274.40	3162325.32
Machine Cutting	41373.00	rmt	8274.40	16135470.00
Precast 100 mm thick Slab	241.97	sqm	-	501370.13
slab of 230 mm thickness	62.88	sqm	52.80	316726.56
R&R of Kerb	191.25	rmt	255.00	22567.50
New Kerb	22464.96	Nos	10045.00	11389732.47
Painting on Kerb	3641.98	sqm	10045.00	340524.88
Cobble Stone	1050.00	sqm	500.00	1255485.00
Dismantling Damaged Road	368.48	Cum	966.00	186141.36
Excavation For Road Work(Asphalt Road)	4798.59	Cum	1665.00	539648.93
Excavation For Road Work(Concrete Road)			966.00	
Primer Coat	13215.40	sqm	1665.00	639625.36
Granular Sub Base	2309.27	Cum	2631.00	5961829.45
Wet Mix Macadam	2619.41	Cum	1665.00	6897960.88
Bituminous Macadam	660.77	Cum	2056.00	5747179.23

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Description	Qty	Unit	Length	Amount
Tack Coat	13215.40	sqm	2056.00	174443.28
Bituminous Concrete	528.62	Cum	2056.00	6705018.21
Road Marking	505.35	sqm	2056.00	265713.03
DLC(1:5:10)	718.38	Cum	966.00	3315754.73
M30 Concrete	718.38	Cum	966.00	5269173.62
Cutting transverse contraction joints	957.84	rmt	966.00	73753.68

Length of Asphalt Road=2056.0 M

Length of CC Road=966.0 M

Length of RCC Drain=830.0M

Length of Desilting of Drain=15988.5M

Of Culvert=10No's

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Executive Engineer
RR Nagara Division
BBMP

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Sl. No	Description	Unit	1	34	35	36	37	Total Quantity	Rates In Rupees	Amount Rs.
1	Removal of debries and grabage including Cost of Haulage and Loading and Unloading all including charges. Morth Specification.	No's	60.00		-	-	-	60.00	9351.00	561060.00
2	Removal of Unserviceable Soil with Disposal upto a suitable distance as directed by the Engineer incharge of work. MORTH Specification No. 301 (VOL-III ,P.No.15, I.No.3.11 of CSR 2021-22)	Cum	37096.49	-	-	-	-	37096.49	194.16	7202654.20
3	Earth work in surface excavation by mechanical means for lowering & leveling the ground without blasting for all works other than foundation in Ordinary/Soft rock & depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other	Cum	2878.18	-	-	-	-	2878.18	298.10	857984.21
4	Earth work excavation for FOUNDATION by Mechanical means depth upto 1.50m, as per drawing and technical specifications, includingsetting out, shoring, strutting, barricading, caution lights, including cost of explosives, dressing of excavated surfaces, disposing off or levelling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, blasting materials, tools, usage of Machinery & all other appurtenaces requiredto complete the work, In ordinary/soft rock without blasting upto 1.5 m depth (VOL-I P.No.-8 I.No.1.15.1-CSR-2021-	Cum	323.23	-	-	-	-	323.23	299.20	96710.04

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5	trenches, plinth, sides of foundations and other similar works etc. in layers not exceed ing 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m...(VOL-I,P.No-7, I.No.1.19-CSR-2021-22)	Cum	130.83	-	-	-	-	130.83	224.40	29358.41
6	2.1-Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately).Mix 1:3:6 (M10)	Cum	76.96	-	-	-	-	76.96	6518.60	501666.40
7	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)(VOL-II,P.No-9, I.No.5.4-SRB-2021-22)	Cum	192.40	-	-	-	-	192.40	5964.20	1147500.52
8	Providing Flush/ Ruled pointing: Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge.(VOL-II,P.No-190, I.No.8.19.1-SRB-2021-22)	Sqm	307.84	-	-	-	-	307.84	220.00	67724.12
9	Construction of Embankment by excavating the available approved Gravel/Murrum deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, spreading,grading to required slope and compacting to meet the requirement complete as per specifications, including cost of labour,rolling,water,all materials,usage& all other appurtenaces required to	Cum	2878.18	-	-	-	-	2878.18	483.16	1390619.43

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10	Providing and fixing steel work in built up lattice (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting,fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished seamless type tubes including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge. (VOL-II,P.No-81, I.No.11.16.2-SRB-2021-22)	Kg's	19140.00	-	-	-	-	19140.00	149.60	2863344.00
11	M.S Tube Sr 2021-22 P.No A-22 I.No 328	Mtr	2106.00	-	-	-	-	2106.00	247.50	521235.00
12	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 25x25 mm made of G.I. wire of dia 3 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. (2021-22 Vol-2 Page No.95 I.No11.60)	Sqm	836.13	-	-	-	-	836.13	858.00	717309.54
13	Fabrication, providing and erecting in position Hot dip galvanised Gate using 72 x72 x4mm Sq. Gl Pipe frame with top pipe bending in heavy hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanised Sq. rod for verticals at 150mm c/ c, as shown in the drawing including providing ho dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 72x12mm and 50x6mm arch bent to hot dip galvanised flats the work is inclusive of troughing Gl flat Gl sq. rods, placing, welding all the joints	Sqm	20.40	-	-	-	-	20.40	12475.03	254690.61

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14	over an under coat of primer applied @0.75 ltr/10 m² of approved brand and manufacture to give an even shade including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting , cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.(2021-22 Vol-2 Page No.46 I.No8.33.2)	Sqm	3441.03	-	-	-	-	3441.03	115.50	397438.97		
	ASPHALT											
15	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of & other appurtenances required to complete	Cum	3361.83	-	-	-	-	3361.83	112.46	378070.99		
16	Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401. Granular Sub-BasePlant Mix Method. Materia.Item No.4.1(V),Page No.19, Vol III SR-21-22	Cum	1590.89	-	-	-	-	1590.89	2581.70	4107187.80		
17	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. Wet Mix Macadam	Cum	2619.41	-	-	-	-	2619.41	2633.40	6897960.88		

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18	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means.Prime Coat over WMM/WBM.Item No.5.1,Page No.29, Vol III SR 21-22	Sqm	13215.40	-	-	-	-	13215.40	48.40	639625.36
19	Providing and laying Bituminous Macadam with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading premixed with bituminous binder VG-30 @ 3.4% by weight of mix, transported to site, laid over a previously prepared surface with mechanical paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction - II for traffic <20 MSA. Materia.Item No.5.8(C),Page No.31, Vol III SR-21-22	Cum	660.77	-	-	-	-	660.77	8697.70	5747179.23
20	Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2on the prepared bituminous surface cleaned with mechanical broo.Tack coat on Bituminous surface .Item No.5.3Page No.29, Vol III SR-21-22	Sqm	13215.40	-	-	-	-	13215.40	13.20	174443.28
21	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects.Bituminous Concrete Grading II for traffic <20 MSA.Item No.5.16(C),Page No.36, Vol III SR-21-22	Cum	528.62	-	-	-	-	528.62	12684.10	6705018.21

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Sl. No	Description	Unit	1	34	35	36	37	Total Quantity	Rate in Rupees	Amount Rs.
22	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface.Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. .Item No.8.15,Page No.57, Vol III SR 21-22	Sqm	505.35	-	-	-	-	505.35	525.80	265713.03
	CIVIL WORKS									
23	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material with all lifts and lead Cement serviceable material with all lifts and lead Cement Concrete Grade M-15 & M-2. P.No 8 I.No 2.8 Volume III SR 2021-22	Cum	-	-	-	-	102.84	102.84	971.30	99888.49
24	Removing and Resetting Stone Slabs of drains and pointing in C.M(1:2)	Sqm	-	4197.74	5908.82	3644.38	2651.05	16401.98	121.00	1984639.88

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Sl. No	Description	Unit	1	34	35	36	37	Final Quantity	Rates in Rupees	Amount Rs.
25	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the	Cum	-	1809.06	1011.71	1036.62	1697.73	5555.12	363.56	2019619.43
26	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately.) Mix 1:3:6 (M10)	Cum	-	159.30	3.13	1.80	129.90	294.13	6327.20	1861031.99
27	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately)M20	Cum	-	4.96	8.98	5.16	276.93	296.03	7225.68	2139006.49

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		Unit	1	34	35	36	37	Total Quantity	Rates In Rupees	Amount Rs.
28	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level , including cost of materials, labour and Usage charges of machinery complete as per specification..Item No9.31,Page No 64, Vol II SR 21-22	Sqm		1050.00	-	-	-	1050.00	1195.70	1255485.00
29	Supplying, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / Substructure / Superstructure complete as per Drawing and Technical Specifications. Item No.9.3 ,Page No.71, Vol III SR 21-22	Tonne	-	0.40	0.72	0.41	16.93	18.45	103724.50	1914056.41
30	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.Item No.6.33,Page No.17, Vol II SR 21-22	Sqm	-	1235.00	1065.68	808.42	789.90	3899.00	1173.70	4576251.61
31	Providing Flush/ Ruled pointing: Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge.Item No.8.19.1,Page No.44, Vol II SR 21-22	Sqm	-	1235.00	1065.68	808.42	789.90	3899.00	220.00	857779.12

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Sl. No	Description	Unit	1	34	35	36	37	Total Quantity	Rates in Rupees	Amount Rs.
32	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10)	Cum	-	119.15	99.91	78.18	70.53	367.77	6518.60	2397318.14
33	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.- do - 7.5 cms thick (P-27/5.31.1) PWD SR 2018-19	Sqm	-	914.63	1284.53	846.59	360.11	3405.85	742.00	2527138.85
34	Providing & laying precast drain cover slab of 100mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(0.9 x 0.60 x 0.1) (Approved Data rate)	Sqm	-	94.50	-	-	147.47	241.97	2072.00	501370.13
35	Providing B S Slabs of selected quality roughly dressed having a size of 10cms thick and fixed in cement mortar (1:6) including fixing curing etc., complete.as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)	Sqm	-	2877.84	1370.16	1926.94	1272.69	7447.63	837.00	6233662.96

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Sl. No	Description	Unit	1	34	35	36	37	Total Quantity	Rates in Rupees	Amount Rs.
36	Providing one line dressing to granite stone slab / granite stone masonry as per specifications. as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)	Sqm	-	4111.20	3425.40	3031.56	2499.30	13067.46	242.00	3162325.32
37	Providing Machine Cutting edges to B S Slabs 2.5cms.wide as per Specifications.(Only Chamfered length Shall be recorded)inclusive of all taxes Complete.,as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)	Mtr	-	15987.00	7611.00	10704.00	7071.00	41373.00	390.00	16135470.00
38	Providing & laying precast drain cover slab of 230 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.60 x 0.23) (Approved Data rate)	Sqm	-	12.00	20.88	12.00	27.36	72.24	5037.00	363872.88
39	Removing and Resetting of Kerb Stones	Mtr	-	191.25	-	-	-	191.25	118.00	22567.50
40	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165mm respectively.400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork,curing including cost of materials,labour charges of machinery,loading and unloading,lead and lift,transportation etc., complete as directed by the Engineer in charge of the work (Excluding GST and Area Leading Charges)	No's	-	8000.33	5920.44	5199.73	3344.44	22464.96	507.00	11389732.47

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Sl. No	Description	Unit	1	34	35	36	37	Total Quantity	Rates In Rupees	Amount Rs.
41	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces.Painting Two Coats on New Concrete Surfaces.Item No.8.1,Page No.56, Vol III SR 21-22	Sqm	-	1137.42	799.26	701.96	451.50	3090.14	93.50	288928.46
42	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately. Dismantling of Cement Concrete Pavement .Item No.2.19,Page No.10, Vol III SR-21-22	Cum	-		-	-	368.48	368.48	505.16	186141.36

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Sl. No	Description	Unit	1	34	35	36	37	Total Quantity	Rates in Rupees	Amount Rs.
43	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of & other appurtenances required to complete	Cum	-		-	-	1436.76	1436.76	112.46	161578.03
44	Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401. Granular Sub-BasePlant Mix Method. Materia.Item No.4.1(V),Page No.19, Vol III SR-21-22	Cum	-		-	-	718.38	718.38	2581.70	1854641.65
45	Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ m3, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 t vibratory roller, finishing and curing.Item	Cum	-		-	-	718.38	718.38	4615.60	3315754.73
46	Construction of un-reinforced,plain cement concrete pavement using M-30 grade using Cement 270Kgs & GGBS 90Kgs (70:30 proportion) From ISO 9001 accredited plants as per IS 4926-2003 with mix design procedure and thickness as per design,over a prepared sub base.The Super plastisiser confirming to IS9103-1999 Reaffirmed-2008,Coarse aggregates and Fine aggregates confirming to IS 383:2016, transported to site, laid in approved fixed side form work (Steel Channel,Laying and Fixing of 125 micron thick polythene film,wedges,steel plates including levelling the form work) Spreding the	Cum	-		-	-	718.38	718.38	7334.80	5269173.62

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	Description	Unit					Quantity	Rupees	Amount Rs.
47	Cutting transverse contraction joints 3 to 4 mm wide and depth 60mm in concrete slab using concrete cutting machine with diamond studded saw within 48 hours of casting of bay / slab etc. complete including subsequent widening of the groove 8 to 10 mm. wide at top having depth of 15 mm. as directed by Engineer incharge .MoRTH 602.6.3 Item No.21-B(4),Page No.146, Vol III SR-21-22	Mtr	-	-	-	-	957.84	957.84	77.00	73753.68
								SUB TOTAL	112115572.33
								GST 18%	20180803.02
								DPR & PMC 2%	2700000.00
								Miscellaneous	3624.65
								TOTAL	135000000.00

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary.

2 The Estimate is prepared as per the PWD SR 2021-22 & PWD SR-

3 The Provision made in estimate are adequate and essential

4 This area comes under BBMP limits.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

CONSULTANT

Authorised Signatory

Asst Engineer
Ward No- 160
BBMP

TECHNICAL SANCTION

Rs: 112115572/- (Rupees One Crore Twenty one lakhs Fifteen thousand five hundred and seventy two only) is accorded under the head:

By CE(R.R.N.), P.N. 20-21

Registered as CE (R.R.N) No: 63/2223 subject to conditions contained in enclosed memo No: 63/22-23 Dated: 08/07/2022

TA, CE (R.R.N.)

Asst Executive Engineer
RR Nagar Sub Division,
BBMP

Executive Engineer
CRN Division
BBMP

No.: 36/22-23 ದಿನಾಂಕ: 20/07/22

ರೂ. 13,5000,000/- (Thirteen Crore Fifty Lakhs only)

ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಿಭಾಗ
ಬ.ಮ.ಪ.ಪ. ಬೆಂಗಳೂರು-98

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ESTIMATE(01) :

<u>NAME OF WORK</u> :- DEVELOPMENT OF SUBHASH PLAY GROUND AT IDEAL HOMES IN WARD NO 160.RR NAGARA

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BRUHAT BENGALURU MAHANAGARA PALIKE

NAME OF WORK :Development of Subhash Play Ground at Ideal Homes in ward No 160,RR Nagara

Sl No	Job no:- Description of Items	Unit	No	L (M)	B (M)	D (M)	Est. Cost Rs. Qty	500.00 Rate	Lakhs Amount
1	Removal of debries and grabage including Cost of Haulage and Loading and Unloading all including charges. Morth Specification.								
		Nos	60.0				60.00		
	Data Rate	9351.00				**Total Q**	60.00	**9351.00**	**5,61,060.00**
2	Removal of Unserviceable Soil with Disposal upto a suitable distance as directed by the Engineer incharge of work. MORTH Specification No. 301 (VOL-III ,P.No.15, I.No.3.11 of CSR 2021-22)								
	Total Area	**M³**							
	Area-1		1.0	39.19	22.17	5.80	5040.19		
	Area-2		1.0	45.81	27.97	5.80	7431.74		
	Area-3		1.0	51.44	38.21	5.80	11399.89		
	Area-4		1.0	44.65	32.68	5.80	8463.45		
	Area-5		1.0	44.65	18.38	5.80	4761.22		
						Total Q	**37096.49**	**194.16**	**72,02,654.20**
	Basic Rate	32.00							
	Loading and Unloading	118.00							
	for Add Lead For Earth(1.28 Tonn/Cum)16 KM	40.96							
	Area Weightage @ 10%	3.20							
	Total	**194.16**							
3	Earth work in surface excavation by mechanical means for lowering & leveling the ground without blasting for all works other than foundation in Ordinary/Soft rock & depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work In Ordinary/Soft rock upto 300 mm depth(VOL-I,P.No 8 I.No.1.13-CSR-2021-22)								
		M³							
	Area-1		1.0	39.19	22.17	0.45	391.05		
	Area-2		1.0	45.81	27.97	0.45	576.60		
	Area-3		1.0	51.44	38.21	0.45	884.47		
	Area-4		1.0	44.65	32.68	0.45	656.65		
	Area-5		1.0	44.65	18.38	0.45	369.41		
						Total Qty	**2878.18**	**298.10**	**8,57,984.21**
	Basic Rate	**271.00**							
	Area Weightage @ 10%	**27.10**							
	Total	**298.10**							
4	Earth work excavation for FOUNDATION by Mechanical means depth upto 1.50m, as per drawing and technical specifications, includingsetting out, shoring, strutting, barricading, caution lights, including cost of explosives, dressing of excavated surfaces, disposing off or levelling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, blasting materials, tools, usage of Machinery & all other appurtenaces requiredto complete the work, **In ordinary/soft rock without blasting upto 1.5 m depth** ,(VOL-I,P.No -8, I.No.1.15.1-CSR-2021-22)								
		M³							
	Points (A-B)		1.0	49.29	1.05	0.90	46.58		
	Points (B-C)		1.0	37.92	1.05	0.90	35.84		
	Points (C-D)		1.0	32.74	1.05	0.90	30.94		
	Points (D-E)		1.0	49.37	1.05	0.90	46.66		
	Points (E-F)		1.0	84.23	1.05	0.90	79.59		
	Points (F-G)		1.0	54.10	1.05	0.90	51.12		
	Points (G-A)		1.0	34.40	1.05	0.90	32.50		
						Total Qty	**323.23**	**299.20**	**96,710.0**
	Basic Rate	272.00							

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Sl No	Job no:- Description of Items	Unit	No	L (M)	B (M)	D (M)	Est. Cost Rs. Qty	500.00 Rate	Lakhs Amount
	Area Weightage @ 10%	27.20							
	Total	**299.20**							
5	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceed ing 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m...(VOL-I,P.No-7, I.No.1.19-CSR-2021-22)								
		M^3							
	Total Excavated						323.23		
	Deductions								
	SSM Work						-192.40		
						Total Qty	**130.83**	**224.40**	**29,358.41**
	Basic Rate	204.00							
	Area Weightage @ 10%	20.40							
	Grand Total	**224.40**							
6	2.1-Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately).**Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates**(VOL-I,P.No-15 , I.No.2.1.4-CSR-2021-22)								
		M^3							
	Points (A-B)		1.00	49.29	1.05	0.15	7.76		
	Points (B-C)		1.00	37.92	1.05	0.15	5.97		
	Points (C-D)		1.00	32.74	1.05	0.15	5.16		
	Points (D-E)		1.00	49.37	1.05	0.15	7.78		
	Points (E-F)		1.00	84.23	1.05	0.15	13.27		
	Points (F-G)		1.00	54.10	1.05	0.15	8.52		
	Points (G-A)		1.00	34.40	1.05	0.15	5.42		
	Coping								
	Points (A-B)		1.00	49.29	0.45	0.15	3.33		
	Points (B-C)		1.00	37.92	0.45	0.15	2.56		
	Points (C-D)		1.00	32.74	0.45	0.15	2.21		
	Points (D-E)		1.00	49.37	0.45	0.15	3.33		
	Points (E-F)		1.00	84.23	0.45	0.15	5.69		
	Points (F-G)		1.00	54.10	0.45	0.15	3.65		
	Points (G-A)		1.00	34.40	0.45	0.15	2.32		
					Total Qty		**76.96**	**6518.60**	**5,01,666.40**
	Basic Rate	5926.00							
	Area Weightage @ 10%	592.60							
	Total	**6518.60**							
7	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)(VOL-II,P.No-9, I.No.5.4-SRB-2021-22)								
		M^3							
	First Step								
	Points (A-B)		1.00	49.29	0.60	0.60	17.74		
	Points (B-C)		1.00	37.92	0.60	0.60	13.65		
	Points (C-D)		1.00	32.74	0.60	0.60	11.79		
	Points (D-E)		1.00	49.37	0.60	0.60	17.77		
	Points (E-F)		1.00	84.23	0.60	0.60	30.32		
	Points (F-G)		1.00	54.10	0.60	0.60	19.48		
	Points (G-A)		1.00	34.40	0.60	0.60	12.38		
	Second Step								
	Points (A-B)		1.0	49.29	0.45	0.45	9.98		
	Points (B-C)		1.0	37.92	0.45	0.45	7.68		
	Points (C-D)		1.0	32.74	0.45	0.45	6.63		
	Points (D-E)		1.0	49.37	0.45	0.45	10.00		
	Points (E-F)		1.0	84.23	0.45	0.45	17.06		
	Points (F-G)		1.0	54.10	0.45	0.45	10.96		
	Points (G-A)		1.0	34.40	0.45	0.45	6.96		
					Total Qty		**192.40**	**5964.20**	**11,47,500.**
	Basic Rate	5422.00							
	Area Weightage @ 10%	542.20							

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Sl No	Job no:- Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	500.00 Rate	Lakhs Amount
	Total	**5964.20**							
8	Providing Flush/ Ruled pointing: Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge.(VOL-II,P.No-190, I.No.8.19.1 SRB-2021-22)								
	Pointing	**m^2**							
	Points (A-B)		2.00	49.29		0.45	44.36		
	Points (B-C)		2.00	37.92		0.45	34.13		
	Points (C-D)		2.00	32.74		0.45	29.46		
	Points (D-E)		2.00	49.37		0.45	44.44		
	Points (E-F)		2.00	84.23		0.45	75.80		
	Points (F-G)		2.00	54.10		0.45	48.69		
	Points (G-A)		2.00	34.40		0.45	30.96		
					Total Qty		**307.84**	**220.00**	**67,724.12**
	Basic Rate	200.00							
	Area Weightage @ 10%	20.00							
	Total	**220.00**							
9	Construction of Embankment by excavating the available approved Gravel/Murrum deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, spreading,grading to required slope and compacting to meet the requirement complete as per specifications, including cost of labour,rolling,water,all materials,usage& all other appurtenaces required to complete the work.(VOL-I,P.No 8 I.No.1.13-CSR-2021-22)								
		M^3							
	Area-1		1.0	39.19	22.17	0.45	391.05		
	Area-2		1.0	45.81	27.97	0.45	576.60		
	Area-3		1.0	51.44	38.21	0.45	884.47		
	Area-4		1.0	44.65	32.68	0.45	656.65		
	Area-5		1.0	44.65	18.38	0.45	369.41		
						Total Qty	**2878.18**	**483.16**	**13,90,619.43**
	Basic Rate	**402.00**							
	for Add Lead For Earth(1.28 Tonn/Cum)16 KM	40.96							
	Area Weightage @ 10%	**40.20**							
	Total	**483.16**							
#	Providing and fixing Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting,fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished seamless type tubes including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge. (VOL-II,P.No-81, I.No.11.16.2-SRB-2021-22)								
	Fencing poles	**Kg's**							
			145.0	3.30			478.50		
	At 40Kg/Sqm						19140.00		
					Total Qty		**19140.00**	**149.60**	**28,63,344.00**
	Basic Rate	136.00							
	Area Weightage @ 10%	13.60							
	Total	**149.60**							
#	M.S Tube Sr 2021-22 P.No A-22 I.No 328								
	Support Pipes	Mtr							
			6	351.00			2106.00		
					Total Qty		**2106.00**	**247.50**	**5,21,235.00**
	Basic Rate	225.00							
	Area Weightage @ 10%	22.50							
	Total	**247.50**							
#	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 25x25 mm made of G.I. wire of dia 3 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. (2021-22 Vol-2 Page No.95 I.No11.60)								
	Chian Link Fencing	Sqm							

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Sl No	Job no: Description of Items	Unit	No	L (M)	B (M)	D (M)	Est. Cost Rs. Qty	500.00 Rate	Lakhs Amount
			1	351.00		2.43	852.93		
	Deductions								
	Gate-1		-1	4.00		2.40	-9.60		
	Gate-2		-1	3.00		2.40	-7.20	858.00	7,17,399.54
						Total Qty	**836.13**		
	Basic Rate	780.00							
	Area Weightage @10%	78.00							
	Total	**858.00**							
13	Fabrication, providing and erecting in position Hot dip galvanised Gate using 72 x72 x4mm Sq. GI Pipe frame with top pipe bending in heavy hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanised Sq. rod for verticals at 150mm c/ c, as shown in the drawing including providing ho dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom, Intermediate supports of 72x12mm and 50x6mm arch bent to hot dip galvanised flats the work is inclusive of troughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal patty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq rods, GI gorged designs etc., heavy duty hinges are made out of 75mm solid sq block assembled with 20mm dia bearing in three places for each flop. Heavy duty locking arrangements at two places including cost of labour, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the engineer-in-charge of the work.**(Data Rate)**								
	Gate	**Sqm**	1.0	5.50	2.4		**13.2**		
			1.0	3.00	2.4		**7.2**		
						Total Qn	**20.40**	12475.03	2,54,490.61
	Data Rate	**12475.03**							
#	Painting wood work with Deluxe Multi Surface Paint of required shade. Two coat applied @ 0.90 ltr/10 m² over an under coat of primer applied @0.75 ltr/10 m² of approved brand and manufacture to give an even shade including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, sand papering and knotting , cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.(2021-22 Vol-2 Page No.46 I.No8.33.2)								
	Painting	**m²**					478.50		
	Qty Vide From I.No-9						2106.00		
	Qty Vide From I.No-10						836.13		
	Qty Vide From I.No-11						20.40		
	Qty Vide From I.No-12					**Total Qty**	**3441.03**	115.50	3,97,438.97
	Basic Rate	105.00							
	Area Weightage @10%	10.50							
	Total	**115.50**							
	Road Works								
15	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of & other appurtenances required to complete the workIn all kinds of soils upto 300 mm depth..**Item No.1.12,Page No.8, Vol I SR 21-22**								
	ASPHALT ROAD	Cum							
	BAGE GOWDA LAYOUT								
	Sri Lakshmi Marashima Swamy Prassanna Road(W0790)		1	230.00	5.80	0.30	400.20		
	R.R Chats Road(W1053)		1	96.00	8.50	0.30	244.80		
	Banupriya Nilaya Road(W1051)		1	37.00	6.70	0.30	74.37		
	Vinayaka Margh Road(W0672)		1	269.00	5.80	0.30	468.06		
	Suragi Home Road(W0792)		1	336.00	6.80	0.30	685.44		
	Krushi market Road(W0935)		1	214.00	7.20	0.30	462.24		
	Cross Road-1(W0678 & W0949)		1	205.50	6.60	0.30	406.89		

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Sl No	Job no:- Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	500.00 Rate	Lakhs Amount
	Venkateshwara Prassanna Road		1	31.50	5.00	0.30	47.25		
	Cross Road-2		1	29.00	4.30	0.30	37.41		
	Sri Skhetra MadhaNatti Nilaya Road(		1	74.00	5.70	0.30	126.54		
	venkatadri Nilaya Road(W0939)		1	103.00	5.30	0.30	163.77		
	Cross Road-3(W0937)		1	40.00	5.40	0.30	64.80		
	FOR POT HOLES / CROSS ROAD CUTTINGS								
	For 30% of FOR POT HOLES / CROSS ROAD CUTTINGS		30%	2609.50		0.23	180.06		
							3361.83	**112.46**	**378070.90**
	Basic Rate	65.00							
	Add for lead for earth (1.28 Tonne / Cum) 16km	40.96							
	Area Weightage @ 10%	6.50							
	Total	**112.46**							

16 Construction of **Granular Sub-Base** of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401, **Granular Sub-BasePlant Mix Method. Materia Item No.4.1(V),Page No.19, Vol III SR-21-22**

	ASPHALT ROAD	Cum							
	Sri Lakshmi Marashima Swamy Prassanna Road(W0790)		1	230.00	5.80	0.15	200.10		
	R.R Chats Road(W1053)		1	96.00	8.50	0.15	122.40		
	Banupriya Nilaya Road(W1051)		1	37.00	6.70	0.15	37.19		
	Vinayaka Margh Road(W0672)		1	269.00	5.80	0.15	234.03		
	Suragi Home Road(W0792)		1	336.00	6.80	0.15	342.72		
	Krushi market Road(W0935)		1	214.00	7.20	0.15	231.12		
	Cross Road-1(W0678 & W0949)		1	205.50	6.60	0.15	203.45		
	Venkateshwara Prassanna Road		1	31.50	5.00	0.15	23.63		
	Cross Road-2		1	29.00	4.30	0.15	18.71		
	Sri Skhetra MadhaNatti Nilaya Road(		1	74.00	5.70	0.15	63.27		
	venkatadri Nilaya Road(W0939)		1	103.00	5.30	0.15	81.89		
	Cross Road-3(W0937)		1	40.00	5.40	0.15	32.40		
							1590.89	**2,581.70**	**4107187.80**
	Basic Rate	2347.00							
	Area Weightage @ 10%	234.70							
	Total	**2581.70**							

Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. **Wet Mix Macadam (Plant mix method) .Item No.4.27,Page No.24, Vol III SR-21-22**

	ASPHALT ROAD	Cum							
	Sri Lakshmi Marashima Swamy Prassanna Road(W0790)		1	230.00	5.80	0.23	306.82		
	R.R Chats Road(W1053)		1	96.00	8.50	0.23	187.68		

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Job no:

Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	500.00 Rate	Lakhs Amount
	Banupriya Nilaya Road(W1051)		1	37.00	6.70	0.23	57.02		
	Vinayaka Margh Road(W0672)		1	269.00	5.80	0.23	358.85		
	Suragi Home Road(W0792)		1	336.00	6.80	0.23	525.50		
	Krushi market Road(W0935)		1	214.00	7.20	0.23	354.38		
	Cross Road-1(W0678 & W0949)		1	205.50	6.60	0.23	311.95		
	Venkateshwara Prasanna Road		1	31.50	5.00	0.23	36.23		
	Cross Road-2		1	29.00	4.30	0.23	28.68		
	Sri Skhetra MadhaNatti Nilaya Road(		1	74.00	5.70	0.23	97.01		
	venkatadri Nilaya Road(W0939)		1	103.00	5.30	0.23	125.56		
	Cross Road-3(W0937)		1	40.00	5.40	0.23	49.68		
	FOR POT HOLES / CROSS ROAD CUTTINGS								
	For 30% of FOR POT HOLES / CROSS ROAD CUTTINGS		30%	2609.50		0.23	180.06		
							2619.41	**2633.40**	**6897960.88**
	Basic Rate	2394.00							
	Area Weightage @ 10%	239.40							
	Total	**2633.40**							

18 Providing and applying **primer coat** with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means.Prime Coat over WMM/WBM.**Item No.5.1,Page No.29, Vol III SR 21-22**

ASPHALT ROAD	Sqm							
Sri Lakshmi Marashima Swamy Prassanna Road(W0790)		1	230.00	5.80		1334.00		
R.R Chats Road(W1053)		1	96.00	8.50		816.00		
Banupriya Nilaya Road(W1051)		1	37.00	6.70		247.90		
Vinayaka Margh Road(W0672)		1	269.00	5.80		1560.20		
Suragi Home Road(W0792)		1	336.00	6.80		2284.80		
Krushi market Road(W0935)		1	214.00	7.20		1540.80		
Cross Road-1(W0678 & W0949)		1	205.50	6.60		1356.30		
Venkateshwara Prasanna Road		1	31.50	5.00		157.50		
Cross Road-2		1	29.00	4.30		124.70		
Sri Skhetra MadhaNatti Nilaya Road(		1	74.00	5.70		421.80		
venkatadri Nilaya Road(W0939)		1	103.00	5.30		545.90		
Cross Road-3(W0937)		1	40.00	5.40		216.00		
W1303		1	255.00	7.30		1861.50		
Cross Road-1		1	136.00	5.50		748.00		
						13215.40		
						13215.40	**48.40**	**639625.36**
Basic Rate	44.00							
Area Weightage @ 10%	4.40							

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Sl No	Job no:- Description of Items	Unit	No	L (M)	B (M)	D (M)	Est. Cost Rs. Qty	SOR (R) Rate	Lakhs Amount
	Total	48.40							
19	Providing and laying Bituminous Macadam with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading premixed with bituminous binder VG-30 @ 3.4% by weight of mix, transported to site, laid over a previously prepared surface with mechanical paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction - II for traffic <20 MSA. Materia.Item No.5.8(C),Page No.31, Vol III SR-21-22								
	ASPHALT ROAD	Cum							
	Sri Lakshmi Marashima Swamy Prassanna Road(W0790)		1	230.00	5.80	0.05	66.70		
	R.R Chats Road(W1053)		1	96.00	8.50	0.05	40.80		
	Banupriya Nilaya Road(W1051)		1	37.00	6.70	0.05	12.40		
	Vinayaka Margh Road(W0672)		1	269.00	5.80	0.05	78.01		
	Suragi Home Road(W0792)		1	336.00	6.80	0.05	114.24		
	Krushi market Road(W0935)		1	214.00	7.20	0.05	77.04		
	Cross Road-1(W0678 & W0949)		1	205.50	6.60	0.05	67.82		
	Venkateshwara Prassanna Road		1	31.50	5.00	0.05	7.88		
	Cross Road-2		1	29.00	4.30	0.05	6.24		
	Sri Skhetra MadhaNatti Nilaya Road(		1	74.00	5.70	0.05	21.09		
	venkatadri Nilaya Road(W0939)		1	103.00	5.30	0.05	27.30		
	Cross Road-3(W0937)		1	40.00	5.40	0.05	10.80		
	W1303		1	255.00	7.30	0.05	93.08		
	Cross Road-1		1	136.00	5.50	0.05	37.40		
							660.77	**8697.70**	**5747179.23**
	Basic Rate	7907.00							
	Area Weightage @ 10%	790.70							
	Total	**8697.70**							
20	Providing and applying **tack coat** with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2on the prepared bituminous surface cleaned with mechanical broo.Tack coat on Bituminous surface .**Item No.5.3Page No.29, Vol III SR-21-22**								
	ASPHALT ROAD	Cum							
	Sri Lakshmi Marashima Swamy Prassanna Road(W0790)		1	230.00	5.80		1334.00		
	R.R Chats Road(W1053)		1	96.00	8.50		816.00		
	Banupriya Nilaya Road(W1051)		1	37.00	6.70		247.90		
	Vinayaka Margh Road(W0672)		1	269.00	5.80		1560.20		
	Suragi Home Road(W0792)		1	336.00	6.80		2284.80		
	Krushi market Road(W0935)		1	214.00	7.20		1540.80		
	Cross Road-1(W0678 & W0949)		1	205.50	6.60		1356.30		
	Venkateshwara Prassanna Road		1	31.50	5.00		157.50		
	Cross Road-2		1	29.00	4.30		124.70		
	Sri Skhetra MadhaNatti Nilaya Road(		1	74.00	5.70		421.80		
	venkatadri Nilaya Road(W0939)		1	103.00	5.30		545.90		

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Sl No	Job no:- Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	500.00 Rate	Lakhs Amount
	Cross Road-3(W0937)		1	40.00	5.40		216.00		
	W1303		1	255.00	7.30		1861.50		
	Cross Road-1		1	136.00	5.50		748.00		
							13215.40	13.20	174443.28
	Basic Rate	12.00							
	Area Weightage @ 10%	1.20							
	Total	13.20							

21 Providing and laying **Bituminous Concrete** with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects.Bituminous Concrete Grading II for traffic <20 MSA.**Item No.5.16(C),Page No.36, Vol III SR 21-22**

ASPHALT ROAD	Cum							
Sri Lakshmi Marashima Swamy Prassanna Road(W0790)		1	230.00	5.80	0.04	53.36		
R.R Chats Road(W1053)		1	96.00	8.50	0.04	32.64		
Banupriya Nilaya Road(W1051)		1	37.00	6.70	0.04	9.92		
Vinayaka Margh Road(W0672)		1	269.00	5.80	0.04	62.41		
Suragi Home Road(W0792)		1	336.00	6.80	0.04	91.39		
Krushi market Road(W0935)		1	214.00	7.20	0.04	61.63		
Cross Road-1(W0678 & W0949)		1	205.50	6.60	0.04	54.25		
Venkateshwara Prassanna Road		1	31.50	5.00	0.04	6.30		
Cross Road-2		1	29.00	4.30	0.04	4.99		
Sri Skhetra MadhaNatti Nilaya Road(		1	74.00	5.70	0.04	16.87		
venkatadri Nilaya Road(W0939)		1	103.00	5.30	0.04	21.84		
Cross Road-3(W0937)		1	40.00	5.40	0.04	8.64		
W1303		1	255.00	7.30	0.04	74.46		
Cross Road-1		1	136.00	5.50	0.04	29.92		
						528.62	12684.10	6705018.21
Basic Rate	11531.00							
Area Weightage @ 10%	1,153.10							
Total	12684.10							

22 Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface.Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. **.Item No.8.15,Page No.57, Vol III SR 21-22**

ASPHALT ROAD	Sqm							
Sri Lakshmi Marashima Swamy Prassanna Road(W0790)		2.5	230.00	0.10		57.50		
R.R Chats Road(W1053)		2.5	96.00	0.10		24.00		
Banupriya Nilaya Road(W1051)		2	37.00	0.10		7.40		
Vinayaka Margh Road(W0672)		2.5	269.00	0.10		67.25		

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Sl No	Job no:- Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs Qty	500.00 Rate	Lakhs Amount
	Suragi Home Road(W0792)		2.5	336.00	0.10		84.00		
	Krushi market Road(W0935)		2.5	214.00	0.10		53.50		
	Cross Road-1(W0678 & W0949)		2.5	205.50	0.10		51.38		
	Venkateshwara Prassanna Road		2.5	31.50	0.10		7.88		
	Cross Road-2		2.5	29.00	0.10		7.25		
	Sri Skhetra MadhaNatti Nilaya Road(		2.5	74.00	0.10		18.50		
	venkatadri Nilaya Road(W0939)		2.5	103.00	0.10		25.75		
	Cross Road-3(W0937)		2.5	40.00	0.10		10.00		
	W1303		2.5	255.00	0.10		63.75		
	Cross Road-1		2	136.00	0.10		27.20		
	Basic Rate	478.00					505.35	525.80	265713.03
	Area Weightage @ 10%	47.80							
	Total	525.80							
	Sub Total								4,15,24,384.14
	GST 18%								7474389.15
	Project Management Consultancy 1%								500000.00
	Detailed project report 1%								500000.00
	Miscellaneous								1226.71
	Total								5,00,00,000.00

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary

2 The Estimate is prepared as per the PWD SR 2021-22

3 The Provision made in estimate are adequate and essential

4 This area comes under BBMP limits.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Consultants

Authorised Signatory

Asst Engineer
Ward No- 160
BBMP

Asst Executive Engineer
RR Nagar Sub Division
BBMP

Executive Engineer
RR Nagar Division
BBMP

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KEY MAP

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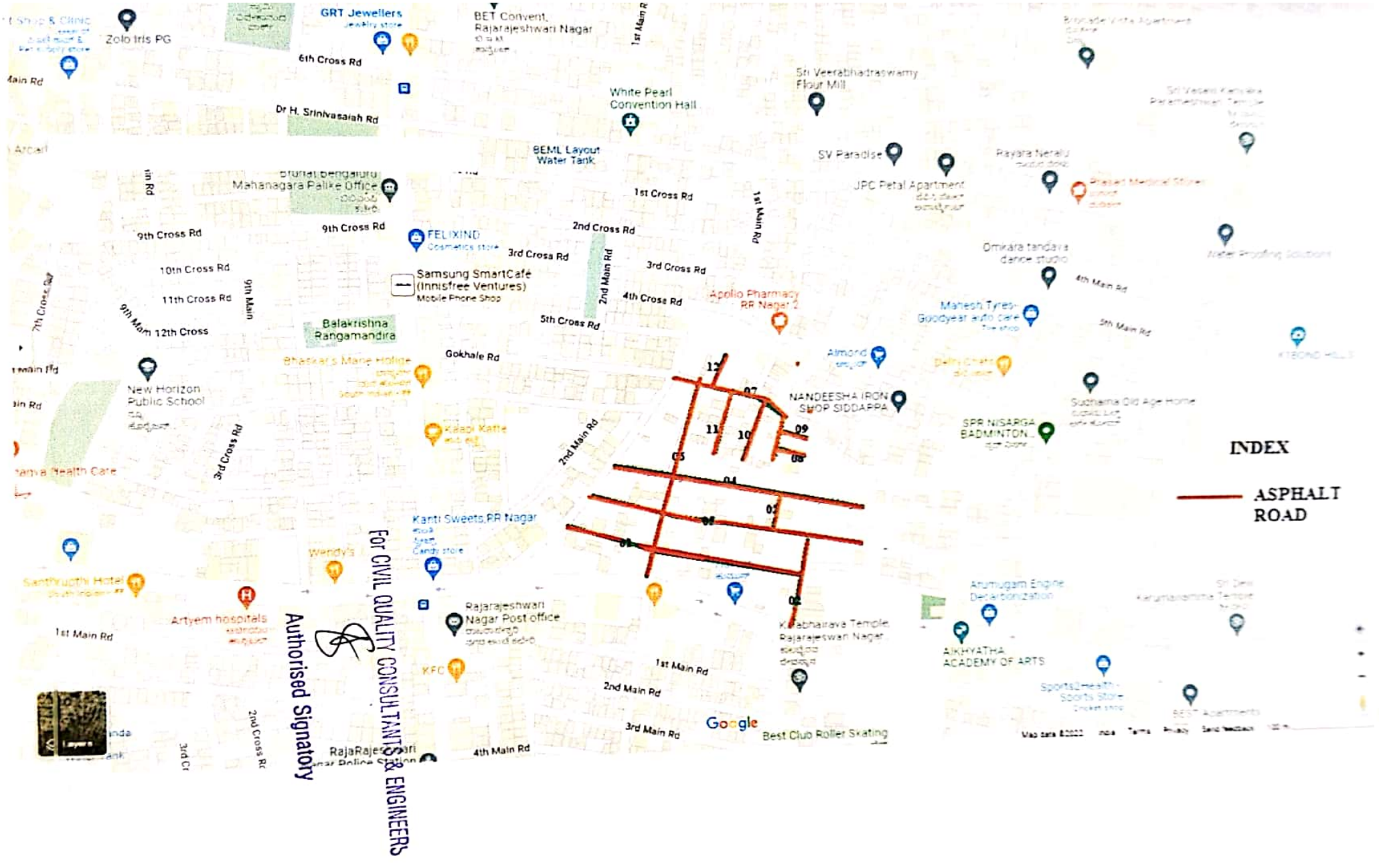

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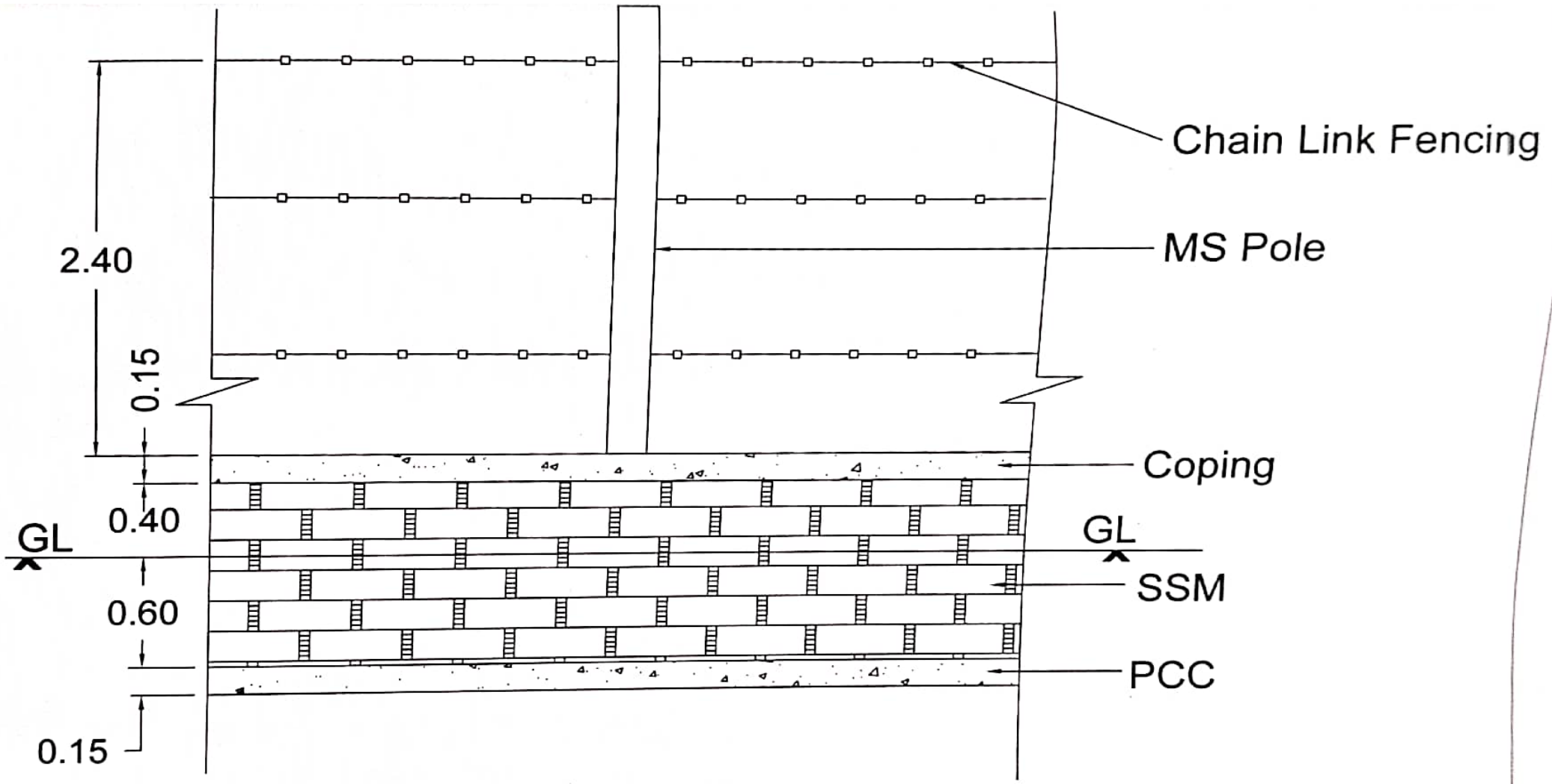

Chain link Fencing

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EXISTING PHOTOS

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

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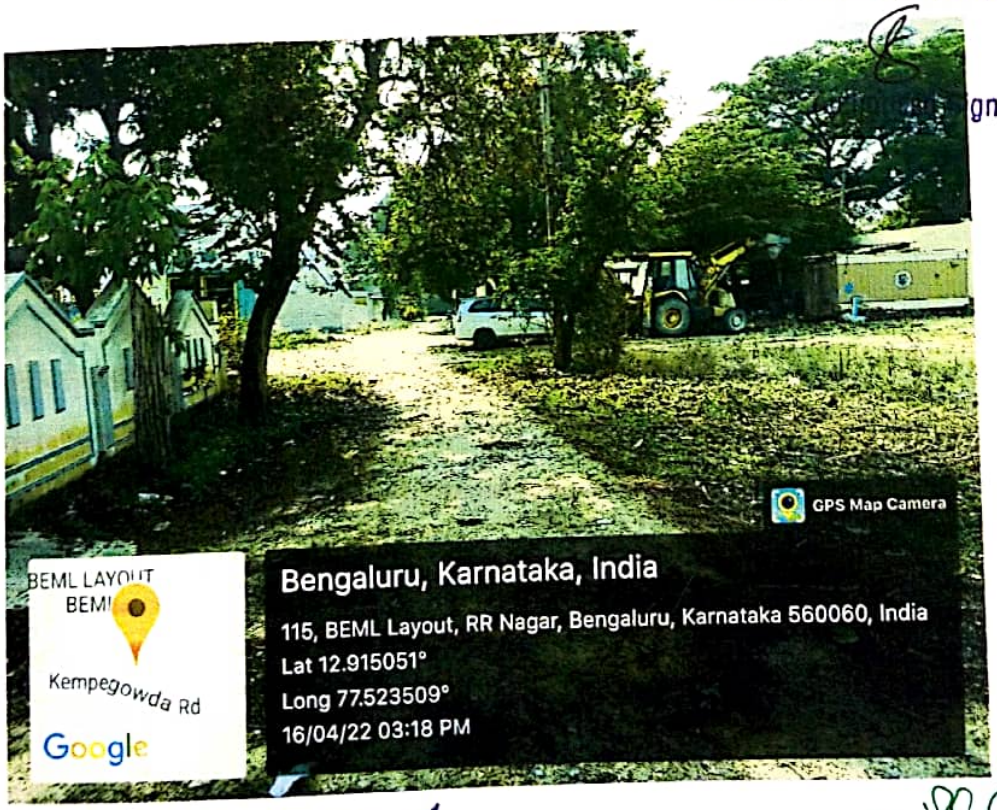

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

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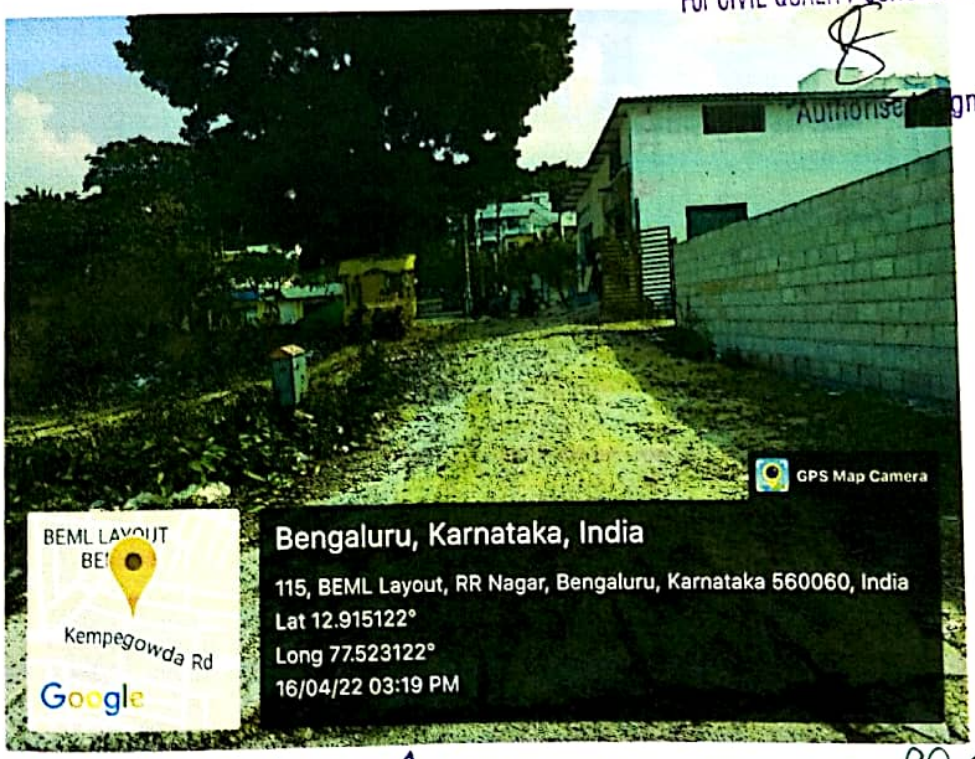

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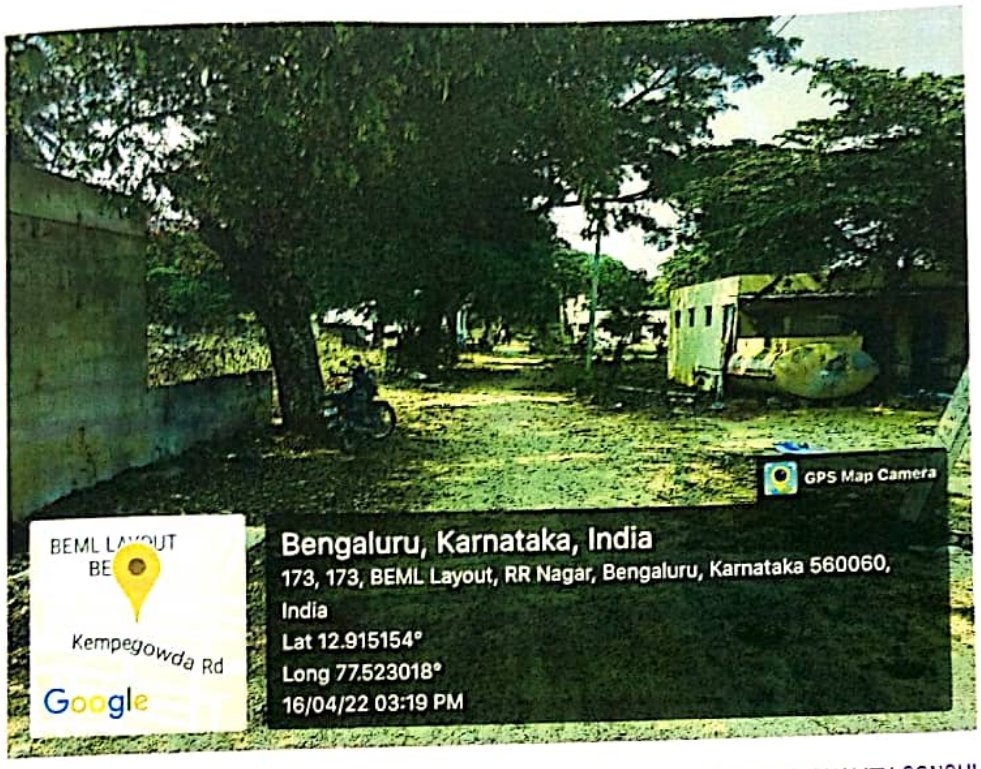

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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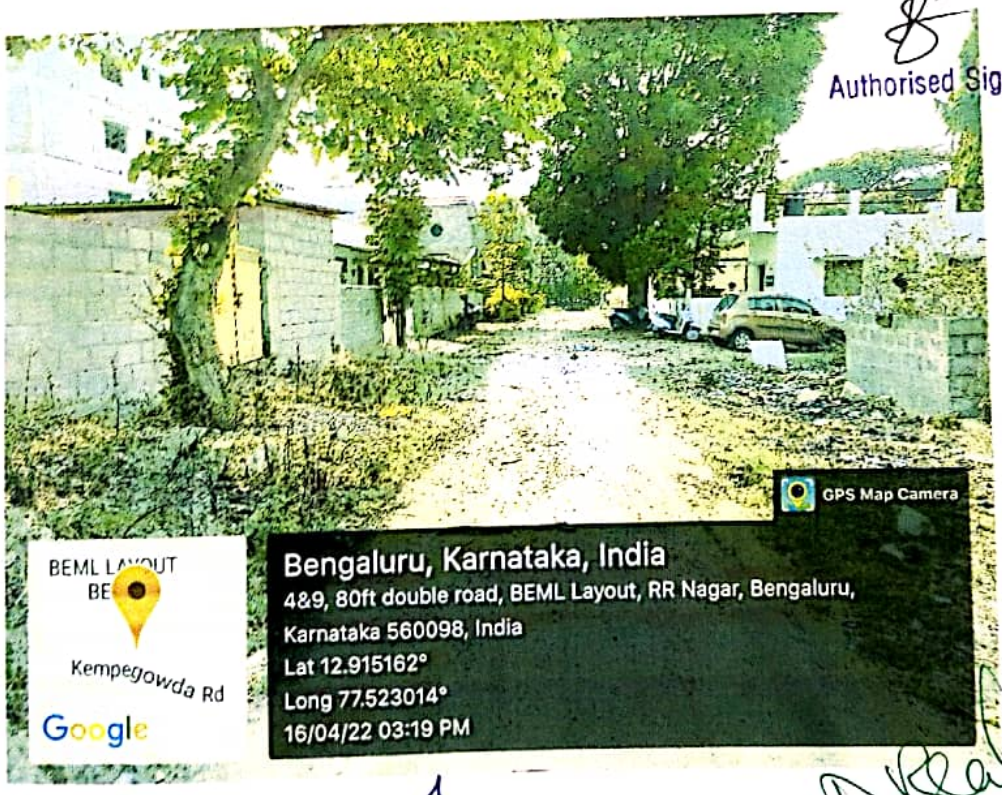

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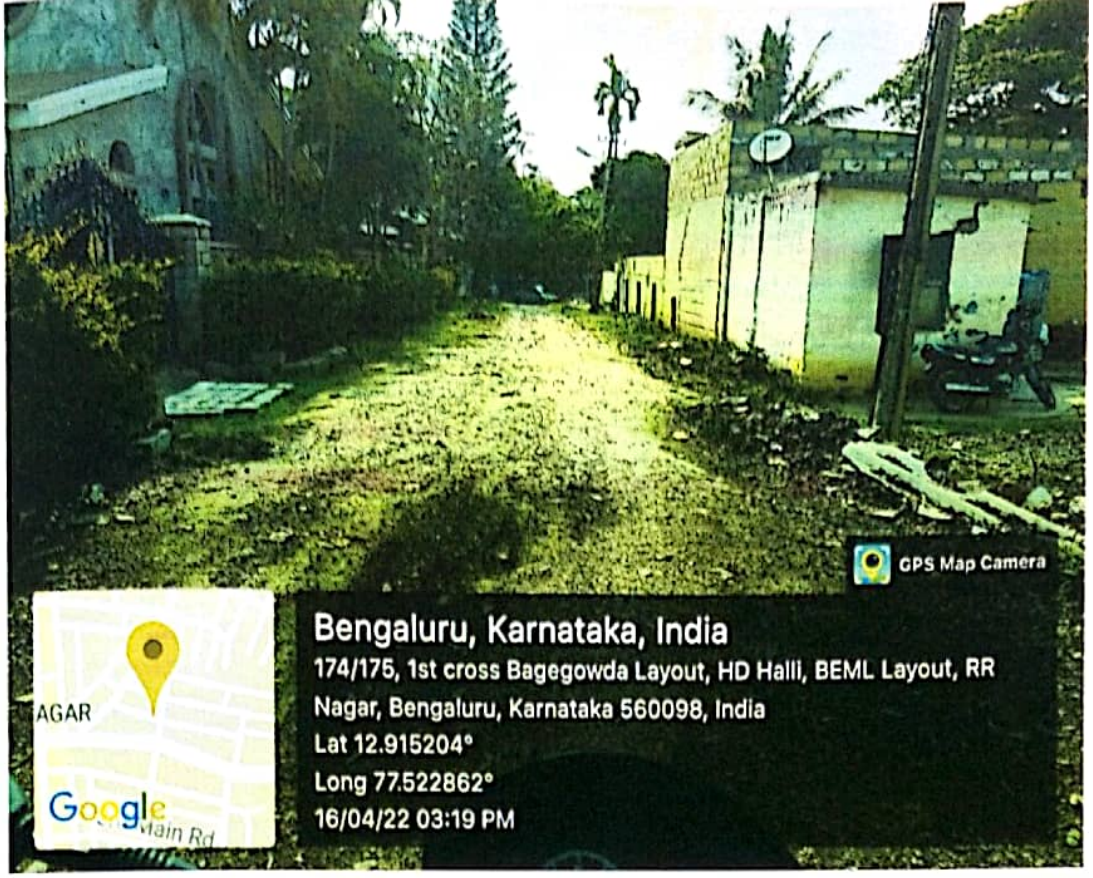

For CIVIL QUALITY CONSULT

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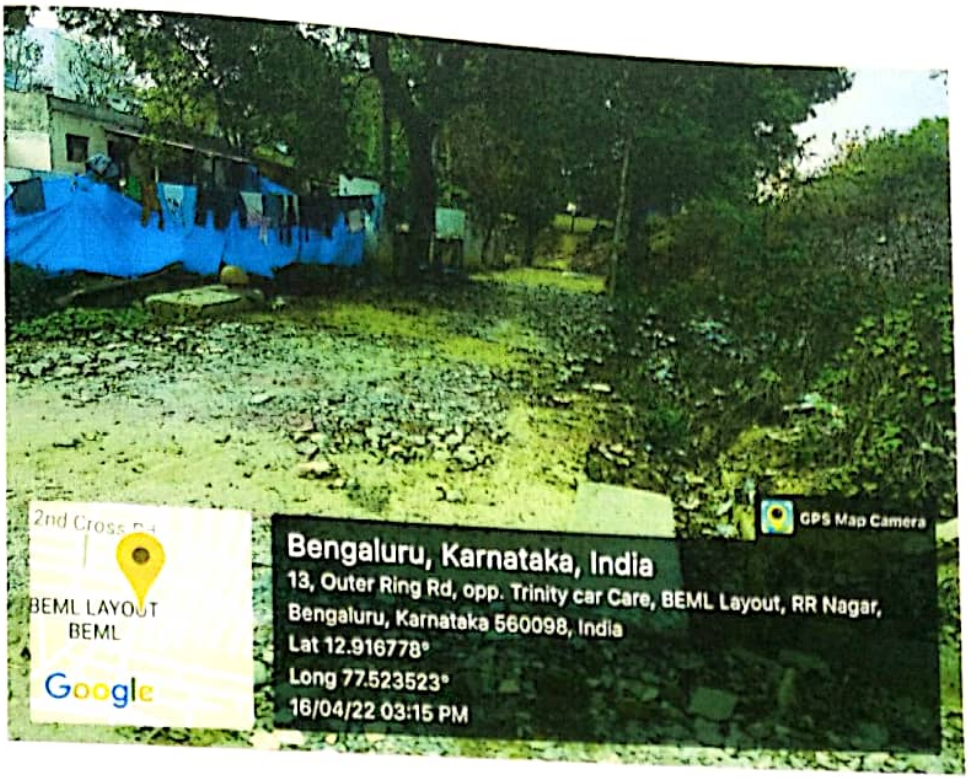

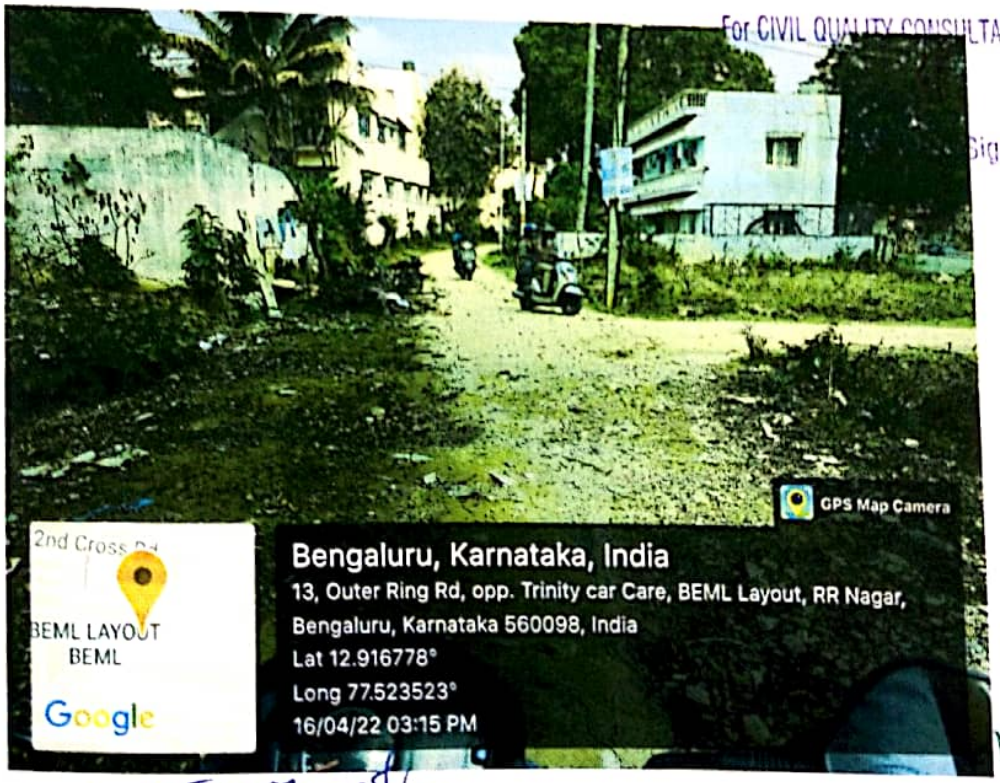

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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For QUALITY CONSULTANTS & ENGINEERS

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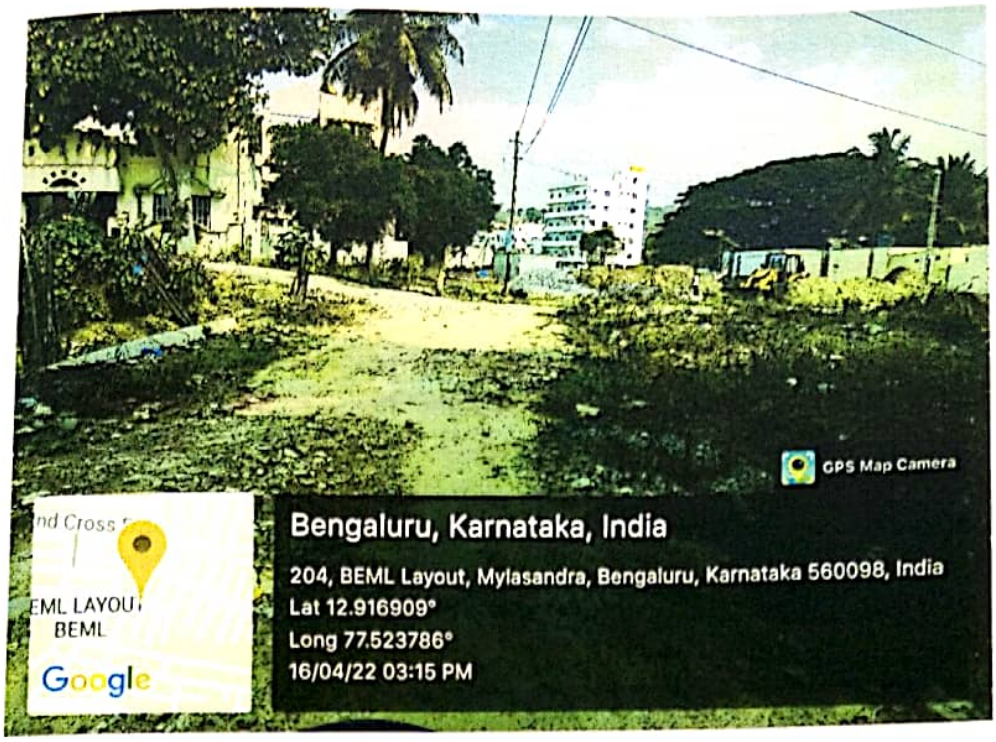

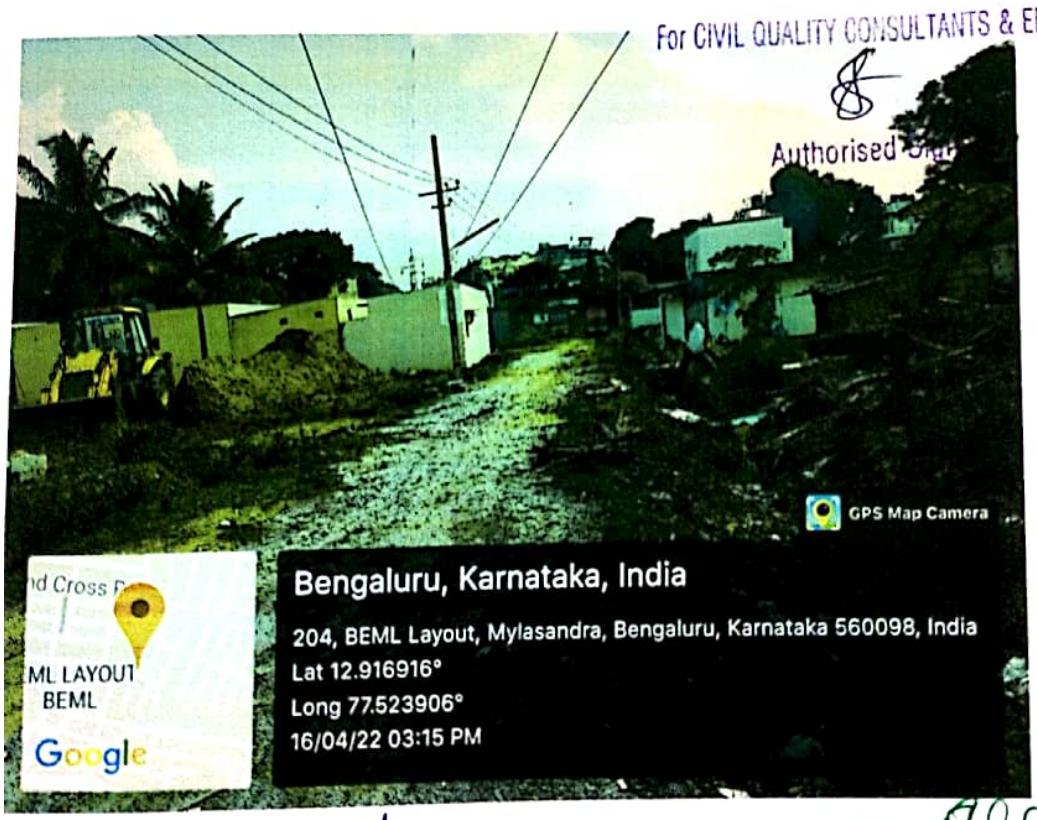

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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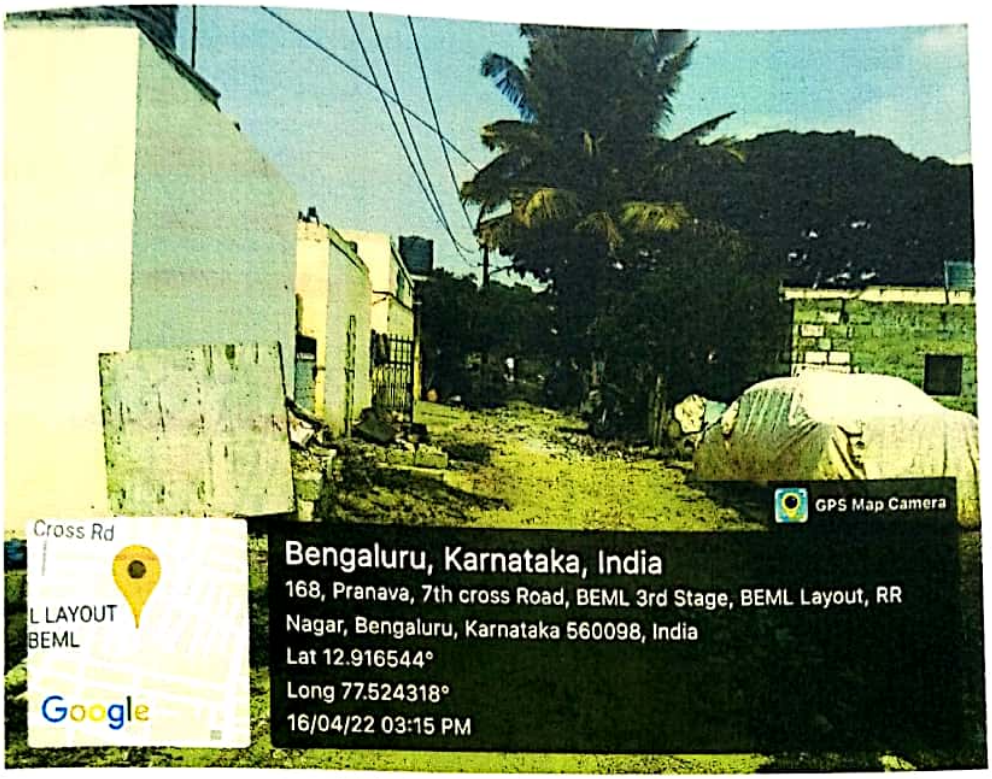

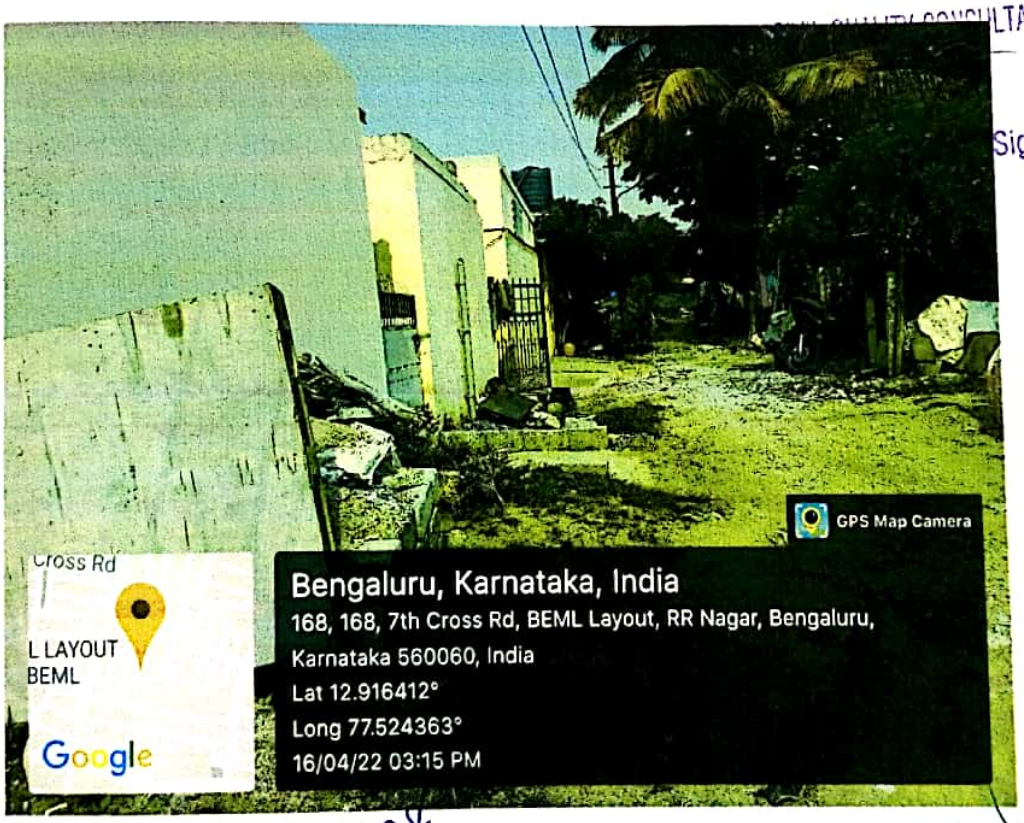

LTANTS & ENGINEERS

Signatory

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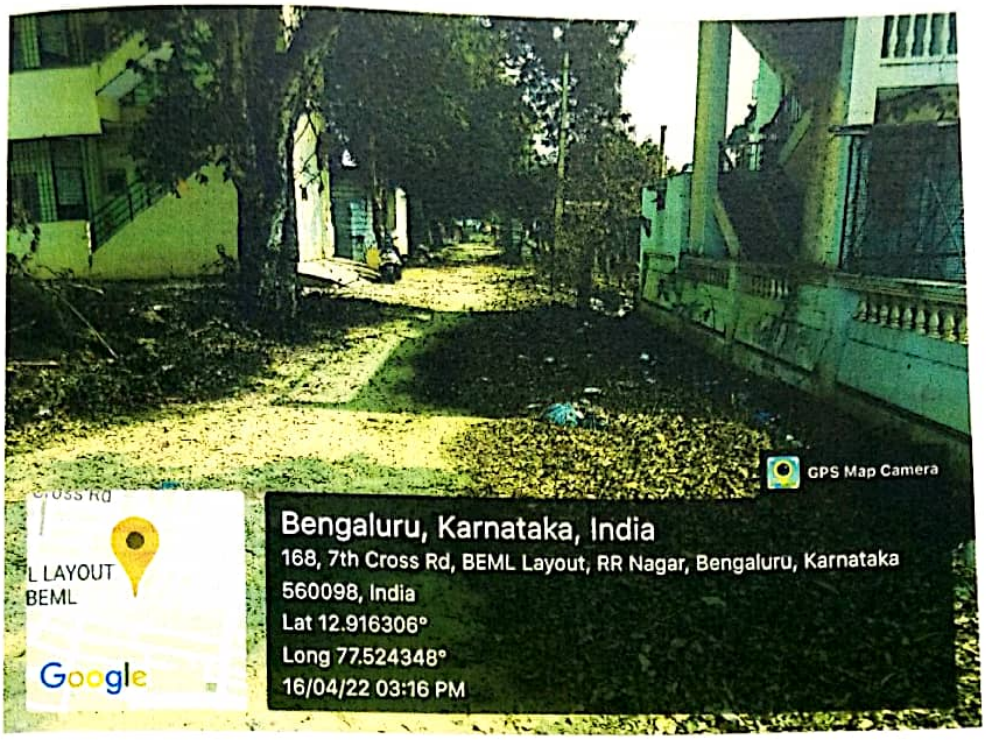

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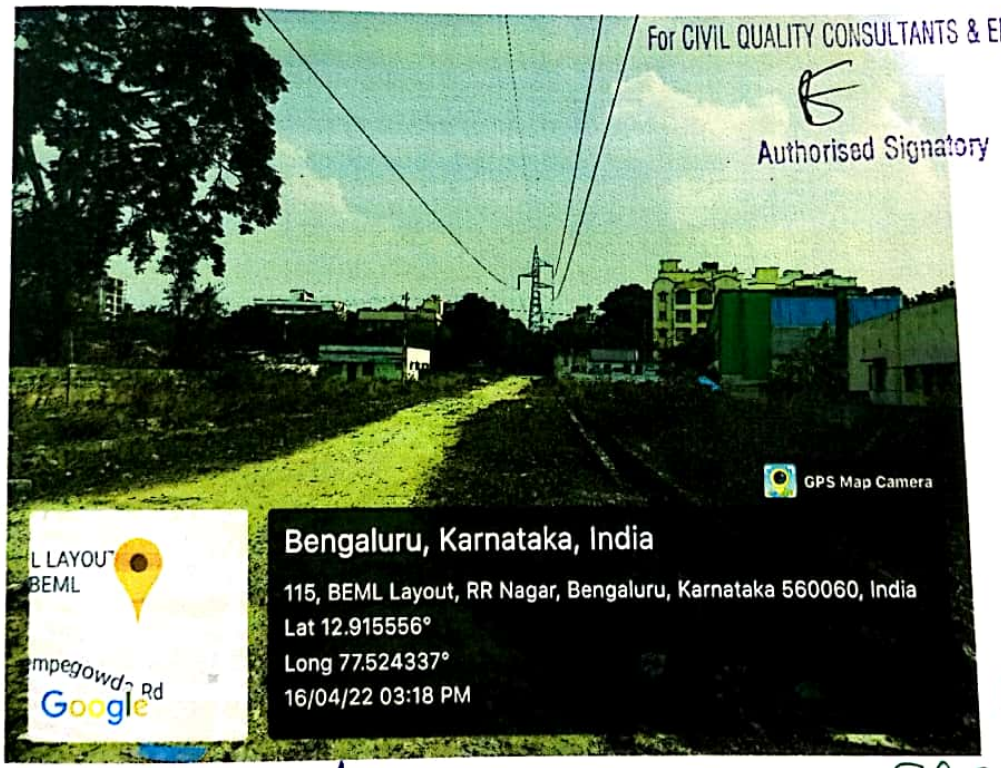

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ESTIMATE(34) :

NAME OF WORK:- IMPROVEMENTS OF CC ROADS & DRAINS IN SACHIDANANDA NAGAR AND SURROUNDING AREAS IN RAJARAJESHWARI NAGARA WARD NO 160

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BRUHAT BENGALURU MAHANAGARA PALIKE

ame of Work:-Improvements of CC Roads & Drains in Sachidananda Nagar and surrounding areas in Rajarajeshwari nagara Ward no 160

Job no:-

Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	250.00 Rate	Lakhs Amount
Removing and Resetting Stone Slabs of drains and pointing in C.M(1:2)								
For Cover Slabs	Sqm							
Sri Sreerastu Glass & Plywoods Road(W1005)		2	81.00	0.90		145.80		
Sri Kalabairava Nilaya Road(W0762)		2	33.00	0.90		59.40		
Sri Muthathiraya Swamy Nilaya road	NS	1	12.00	0.90		10.80		
OPP to Sri Kalabairaveshwara Nilaya Road(W0758)		2	36.60	0.90		65.88		
Sri Maruthi Nilaya Road(W0764)		2	51.00	0.90		91.80		
Samruddhi Nilaya Road(W1005)		2	51.00	0.90		91.80		
Sri Lakshmi Venkateshwara Prassanna Road(W0740)		2	61.50	0.90		110.70		
T.R.Electricals Road(W0742)		2	51.00	0.90		91.80		
Sri Matha Pithru Nilaya Road(W0999)		2	84.00	0.90		151.20		
Sri Chowdeshwari Nilaya Home Road(W0744)		2	12.00	0.90		21.60		
U-shape road(W0997,W0746)		2	50.70	0.90		91.26		
kalabairava Home Road(W0995)		2	27.00	0.90		48.60		
The meat factory Road(W1001)		2	70.50	0.90		126.90		
MRPL Petrol Bunk road(W1003)		2	69.90	0.90		125.82		
						1233.36		
FOR PRE CAST SLABS								
Indian Oil Petrol Bunk Road(W0738)	SS	1	175.00	1.80		315.00		
						315.00		
30% missing Covering Slabs						94.50		
						220.50		
For BS DRAIN Slabs								
Sri Sreerastu Glass & Plywoods Road(W1005)		2	270.00	1.35		729.00		
Sri Kalabairava Nilaya Road(W0762)		2	110.00	1.35		297.00		
Sri Muthathiraya Swamy Nilaya road	NS	1	40.00	1.35		54.00		
OPP to Sri Kalabairaveshwara Nilaya Road(W0758)		2	122.00	1.35		329.40		
Sri Maruthi Nilaya Road(W0764)		2	170.00	1.35		459.00		
Samruddhi Nilaya Road(W1005)		2	170.00	1.35		459.00		
T.R.Electricals Road(W0742)		2	170.00	1.35		459.00		
Kalabairava Home Road(W0995)		2	90.00	1.35		243.00		
MRPL Petrol Bunk road(W1003)		2	233.00	1.35		629.10		
						3658.50		

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Job no:-

Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	250.00 Rate	Lakhs Amount
	25% missing Covering Slabs						914.63		
							2743.88		
	DATA RATE	121.00		Total Qty					
	TOTAL	121.00					4197.74	121.00	507925.94
2	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such similar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.In all kinds of soils Depth upto 1.5 m.Item No.1.4.1,Page No.A(5), Vol I CSR 21-22								
	Desilting	Cum							
	Sri Sreerastu Glass & Plywoods Road(W1005)		2	270.00	0.60	0.60	194.40		
	Sri Kalabairava Nilaya Road(W0762)		2	110.00	0.60	0.60	79.20		
	Sri Muthathiraya Swamy Nilaya road	NS	1	40.00	0.60	0.45	10.80		
	OPP to Sri Kalabairaveshwara Nilaya Road(W0758)		2	122.00	0.60	0.55	80.52		
	Sri Maruthi Nilaya Road(W0764)		2	170.00	0.60	0.55	112.20		
	Samruddhi Nilaya Road(W1005)		2	170.00	0.60	0.50	102.00		
	Sri Lakshmi Venkateshwara Prassanna Road(W0740)		2	205.00	0.60	0.60	147.60		
	Indian Oil Petrol Bunk Road(W0738)	SS	1	175.00	0.60	0.60	63.00		
	T.R.Electricals Road(W0742)		2	170.00	0.60	0.55	112.20		
	Sri Matha Pithru Nilaya Road(W0999)		2	280.00	0.60	0.55	184.80		
	Sri Chowdeshwari Nilaya Home Road(W0744)		2	40.00	0.60	0.60	28.80		
	U-shape road(W0997,W0746)		2	169.00	0.60	0.55	111.54		
	kalabairava Home Road(W0995)		2	90.00	0.60	0.55	59.40		
	The meat factory Road(W1001)		2	235.00	0.60	0.45	126.90		
	MRPL Petrol Bunk road(W1003)		2	233.00	0.60	0.50	139.80		
	New Culverts								
			2	5.00	1.20	1.20	14.40		
	FOR FOOTPATH								
			2	250.00	2.10	0.23	241.50		
							1809.06	363.56	657701.85
	Basic Rate	186.00							
	Loading & unLoading	118.00							
	Add for lead for earth (1.28 Tonne / Cum) 16km	40.96							
	Area Weightage @ 10%	18.60							
	Total	**363.56**							

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Sl No	Job no:- Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	250.00 Rate	Lakhs Amount
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately).Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates.**Item No.2.1.3,Page No.15, Vol I CSR 21-22**								
		Cum							
	New Culverts		2	5.00	1.20	0.15	1.80		
	FOR FOOTPATH								
			2	250.00	2.10	0.15	157.50		
	Basic Rate	5752.00					**159.30**	**6327.20**	**1007922.96**
	Area Weightage @ 10%	575.20							
	Total	**6327.20**							
	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately).M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates.**Item No.2.4.2,Page No.17, Vol I CSR 21-22**								
		Cum							
	Culvert Raft								
	New Culverts								
			2	5.00	1.10	0.20	2.20		
	Culvert Wall								
	New Culverts								
			4	5.00	0.23	0.60	2.76		
							4.96	**7225.68**	**35839.37**
	Basic Rate	6256.00							
	Formwork (5%)	312.80							
	Sub Total	6568.80							
	Area Weightage @ 10%	656.88							
	Total	**7225.68**							
	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of locks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction orce thereby forcing part of sand underneath to come up in between joints, final ompaction of paver surface joints into its final level , including cost of materials, labour and Usage charges of machinery omplete as per specification..**Item No9.31,Page No.64, Vol II SR 21-22**								

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Job no:-

Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs.	250.00	Lakhs
							Qty	Rate	Amount
		Kg							
		Tonne					396.80		
	Basic Rate	94295.00					0.40	103724.50	41157.88
	Area Weightage @ 10%	9,429.50							
	Total	103724.50							
7	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.**Item No.6.33,Page No.17, Vol II SR 21-22**								
	Flagging Course	Sqm							
	Road side								
	Sri Sreerastu Glass & Plywoods Road(W1005)		2	190.00		0.20	76.00		
	Sri Kalabairava Nilaya Road(W0762)		2	82.50		0.20	33.00		
	Sri Muthathiraya Swamy Nilaya road	NS	1	30.00		0.20	6.00		
	OPP to Sri Kalabairaveshwara Nilaya Road(W0758)		2	91.50		0.20	36.60		
	Sri Maruthi Nilaya Road(W0764)		2	127.50		0.20	51.00		
	Samruddhi Nilaya Road(W1005)		2	127.50		0.20	51.00		
	Sri Lakshmi Venkateshwara Prassanna Road(W0740)		2	153.75		0.20	61.50		
	T.R.Electricals Road(W0742)		2	127.50		0.20	51.00		
	Sri Matha Pithru Nilaya Road(W0999)		2	210.00		0.20	84.00		
	kalabairava Home Road(W0995)		2	67.50		0.20	27.00		
	The meat factory Road(W1001)		2	176.25		0.20	70.50		
	MRPL Petrol Bunk road(W1003)		2	174.75		0.20	69.90		
	OFF-Road side								
	Sri Sreerastu Glass & Plywoods Road(W1005)		2	190.00		0.20	76.00		
	Sri Kalabairava Nilaya Road(W0762)		2	82.50		0.20	33.00		
	Sri Muthathiraya Swamy Nilaya road	NS	1	30.00		0.20	6.00		
	OPP to Sri Kalabairaveshwara Nilaya Road(W0758)		2	91.50		0.20	36.60		
	Sri Maruthi Nilaya Road(W0764)		2	127.50		0.20	51.00		
	Samruddhi Nilaya Road(W1005)		2	127.50		0.20	51.00		
	Sri Lakshmi Venkateshwara Prassanna Road(W0740)		2	153.75		0.20	61.50		
	T.R.Electricals Road(W0742)		2	127.50		0.20	51.00		
	Sri Matha Pithru Nilaya Road(W0999)		2	210.00		0.20	84.00		
	kalabairava Home Road(W0995)		2	67.50		0.20	27.00		
	The meat factory Road(W1001)		2	176.25		0.20	70.50		

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Job no:-

Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est. Cost Rs. Qty	250.00 Rate	Lakhs Amount
	MRPL Petrol Bunk road(W1003)		2	174.75		0.20	69.90		
	Basic Rate	1067.00					1235.00	1173.70	1449519.50
	Area Weightage @ 10%	106.70							
	Total	1173.70							

8 Providing Flush/ Ruled pointing. Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge **Item No.8.19.1,Page No.44, Vol II SR 21-22**

Flagging Course	Sqm							
Sri Sreerastu Glass & Plywoods Road(W1005)		4	190.00		0.20	152.00		
Sri Kalabairava Nilaya Road(W0762)		4	82.50		0.20	66.00		
Sri Muthathiraya Swamy Nilaya road	NS	2	30.00		0.20	12.00		
OPP to Sri Kalabairaveshwara Nilaya Road(W0758)		4	91.50		0.20	73.20		
Sri Maruthi Nilaya Road(W0764)		4	127.50		0.20	102.00		
Samruddhi Nilaya Road(W1005)		4	127.50		0.20	102.00		
Sri Lakshmi Venkateshwara Prassanna Road(W0740)		4	153.75		0.20	123.00		
T.R.Electricals Road(W0742)		4	127.50		0.20	102.00		
Sri Matha Pithru Nilaya Road(W0999)		4	210.00		0.20	168.00		
kalabairava Home Road(W0995)		4	67.50		0.20	54.00		
The meat factory Road(W1001)		4	176.25		0.20	141.00		
MRPL Petrol Bunk road(W1003)		4	174.75		0.20	139.80		
						1235.00	220.00	271700.00
Basic Rate	200.00							
Area Weightage @ 10%	20.00							
Total	220.00							

Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately).Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate.**Item No.2.1.4,Page No.15, Vol I SR 21-22**

Copping on Flagging Course	Cum							
Sri Sreerastu Glass & Plywoods Road(W1005)		4	190.00	0.15	0.10	11.40		
Sri Kalabairava Nilaya Road(W0762)		4	82.50	0.15	0.10	4.95		
Sri Muthathiraya Swamy Nilaya road	NS	2	30.00	0.15	0.10	0.90		
OPP to Sri Kalabairaveshwara Nilaya Road(W0758)		4	91.50	0.15	0.10	5.49		
Sri Maruthi Nilaya Road(W0764)		4	127.50	0.15	0.10	7.65		
Samruddhi Nilaya Road(W1005)		4	127.50	0.15	0.10	7.65		
Sri Lakshmi Venkateshwara Prassanna Road(W0740)		4	153.75	0.15	0.10	9.23		

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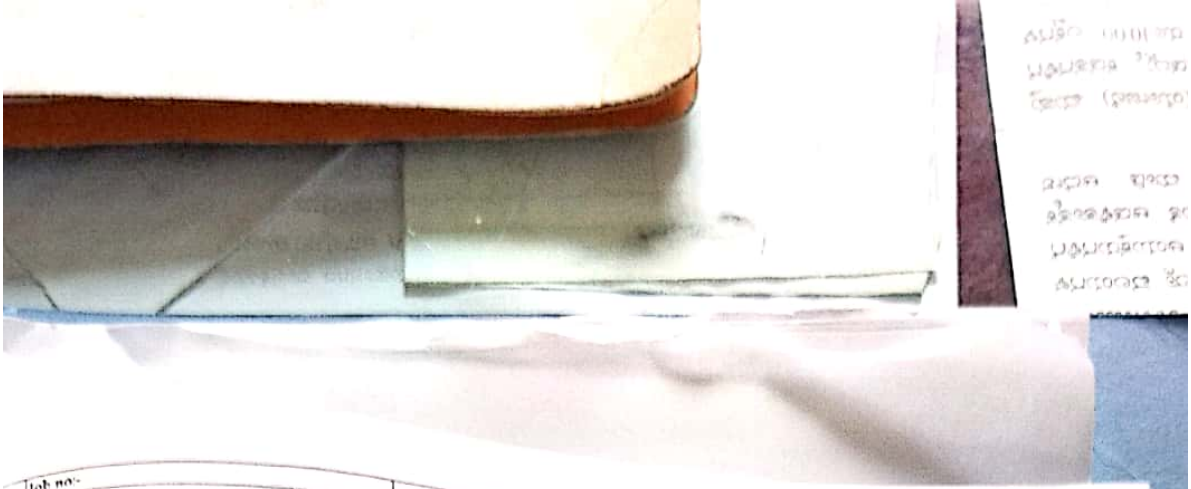

Job no:-

Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	250.00 Rate	Lakhs Amount
	T.R.Electricals Road(W0742)		4	127.50	0.15	0.10	7.65		
	Sri Matha Pithru Nilaya Road(W0999)		4	210.00	0.15	0.10	12.60		
	kalabairava Home Road(W0995)		4	67.50	0.15	0.10	4.05		
	The meat factory Road(W1001)		4	176.25	0.15	0.10	10.58		
	MRPL Petrol Bunk road(W1003)		4	174.75	0.15	0.10	10.49		
	FOR KERB BED								
	Sri Sreerastu Glass & Plywoods Road(W1005)		2	189.00	0.15	0.05	2.84		
	Sri Kalabairava Nilaya Road(W0762)		2	88.00	0.15	0.05	1.32		
	Sri Muthathiraya Swamy Nilaya road	NS	1	32.00	0.15	0.05	0.24		
	OPP to Sri Kalabairaveshwara Nilaya Road(W0758)		2	97.60	0.15	0.05	1.46		
	Sri Maruthi Nilaya Road(W0764)		2	136.00	0.15	0.05	2.04		
	Samruddhi Nilaya Road(W1005)		2	136.00	0.15	0.05	2.04		
	Sri Lakshmi Venkateshwara Prassanna Road(W0740)		2	164.00	0.15	0.05	2.46		
	T.R.Electricals Road(W0742)		2	136.00	0.15	0.05	2.04		
	Sri Matha Pithru Nilaya Road(W0999)		2	224.00	0.15	0.05	3.36		
	U-shape road(W0997,W0746)		2	135.20	0.15	0.05	2.03		
	kalabairava Home Road(W0995)		2	72.00	0.15	0.05	1.08		
	The meat factory Road(W1001)		2	188.00	0.15	0.05	2.82		
	MRPL Petrol Bunk road(W1003)		2	186.40	0.15	0.05	2.80		
	Basic Rate	5926.00					**119.15**	**6518.60**	**776678.15**
	Area Weightage @ 10%	592.60							
	Total	**6518.60**							

Providing **granite slabs** of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.- do - **7.5 cms thick** (P-27/5.31.1) PWD SR 2018-19

	Sqm							
25% missing B8 Drain Slabs						914.63		
						914.63	**742.00**	**678651.75**
Basic Rate	700.00							
Area Weightage @ 6%	42.00							
Total	**742.00**							

Providing B S Slabs of selected quality roughly dressed having a size of 10cms thick and fixed in cement mortar (1:6) including fixing curing etc., complete.as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)

	Sqm							
Sri Sreerastu Glass & Plywoods Road(W1005)		2	189.00	0.90		340.20		
Sri Kalabairava Nilaya Road(W0762)		2	77.00	0.90		138.60		

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Job no:-

Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est. Cost Rs. Qty	250.00 Rate	Lakhs Amount
	Sri Muthathiraya Swamy Nilaya road	NS	1	28.00	0.90		25.20		
	OPP to Sri Kalabairaveshwara Nilaya Road(W0758)		2	85.40	0.90		153.72		
	Sri Maruthi Nilaya Road(W0764)		2	119.00	0.90		214.20		
	Samruddhi Nilaya Road(W1005)		2	119.00	0.90		214.20		
	Sri Lakshmi Venkateshwara Prassanna Road(W0740)		2	143.50	0.90		258.30		
	T.R.Electricals Road(W0742)		2	119.00	0.90		214.20		
	Sri Matha Pithru Nilayn Road(W0999)		2	196.00	0.90		352.80		
	Sri Chowdeshwari Nilaya Home Road(W0744)		2	28.00	0.90		50.40		
	U-shape road(W0997,W0746)		2	118.30	0.90		212.94		
	kalabairava Home Road(W0995)		2	63.00	0.90		113.40		
	The meat factory Road(W1001)		2	164.50	0.90		296.10		
	MRPL Petrol Bunk road(W1003)		2	163.10	0.90		293.58		
							2877.84	**837.00**	**2408752.08**
	Data Rate	837.00							
	Total	**837.00**							
12	Providing one line dressing to granite stone slab / granite stone masonry as per specifications. as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)								
		Sqm							
	New Slab QTY						2877.84		
	FOR R&R QTY						1233.36		
							4111.20	**242.00**	**994910.40**
	Data Rate	242.00							
	Total	**242.00**							
13	Providing Machine Cutting edges to B S Slabs 2.5cms.wide as per Specifications.(Only Chamfered length Shall be recorded)inclusive of all taxes Complete.,as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)								
		m		5329.00	3.00		15987.00		
							15987.00	**390.00**	**6234930.00**
	Data Rate	390.00							
	Total	**390.00**							
14	Providing & laying **precast drain cover slab of 100 mm** thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(0.9 x 0.60 x 0.1) **(Approved Data rate)**								
		Sqm					94.50		
	30% missing Covering Slabs								
							94.50	**2072.00**	**195804.00**
	Data Rate	2072.00							
	Total	**2072.00**							
15	Providing & laying **precast drain cover slab of 230 mm** thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.60 x 0.25) **(Approved Data rate)**								
		Sqm							

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Job no:-						Est .Cost Rs.	250.00	Lakhs
Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
New Culverts		2	5.00	1.20		12.00		
						12.00	**5037.00**	**60444.00**
Data Rate	5037.00							
Total	**5037.00**							
Removing and resetting of Kerb stones								
	Mtr							
Indian Oil Petrol Bunk Road(W0738)	SS	1	175.00			175.00		
Sri Chowdeshwari Nilaya Home Road(W0744)		2	40.00			80.00		
						255.00		
25% Missing Kerb						**63.75**		
						191.25	**118.00**	**22567.50**
Data Rate	118.00							
Total	118.00							
Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165mm respectively,400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork,curing including cost of materials,labour charges of machinery,loading and unloading,lead and lift,transportation etc., complete as directed by the Engineer in charge of the work (Excluding GST and Area Leading Charges)								
	No's					63.75		
Sri Sreerastu Glass & Plywoods Road(W1005)		2	189.00			378.00		
Sri Kalabairava Nilaya Road(W0762)		2	88.00			176.00		
Sri Muthathiraya Swamy Nilaya road	NS	1	32.00			32.00		
OPP to Sri Kalabairaveshwara Nilaya Road(W0758)		2	97.60			195.20		
Sri Maruthi Nilaya Road(W0764)		2	136.00			272.00		
Samruddhi Nilaya Road(W1005)		2	136.00			272.00		
Sri Lakshmi Venkateshwara Prassanna Road(W0740)		2	164.00			328.00		
T.R.Electricals Road(W0742)		2	136.00			272.00		
Sri Matha Pithru Nilaya Road(W0999)		2	224.00			448.00		
U-shape road(W0997,W0746)		2	135.20			270.40		
kalabairava Home Road(W0995)		2	72.00			144.00		
The meat factory Road(W1001)		2	188.00			376.00		
MRPL Petrol Bunk road(W1003)		2	186.40			372.80		
						3600.15		
						8000.33	**507.00**	**4056169.00**
Length/0.45								
Data Rate	507.00							
Total	**507.00**							
Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces.Painting Two Coats on New Concrete Surfaces.**Item No.8.1,Page No.56, Vol III SR 21-22**								
	Sqm							
		1	3791.40		0.30	1137.42		

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Sl No	Job no:- Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	250.00 Rate	Lakhs Amount
							1137.42	93.50	106348.77
	Basic Rate	85.00							
	Area Weightage @ 10%	8.50							
	Total	93.50							
	Sub Total								20762508.16
	GST 18%								3737251.47
	Detailed project report 1%								250000.00
	PMC 1%								250000.00
	Miscellaneous								240.38
	Total								25000000.00

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary
2 The Estimate is prepared as per the PWD SR 2021-22 & PWD SR-2018-19,Issue Rate 07/04/2022
3 The Provision made in estimate are adequate and essential
4 This area comes under BBMP limits.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Consultants

Authorised Signatory

Asst Engineer
Ward No- 160
BBMP

Asst Executive Engineer
RR Nagar Sub Division
BBMP

Executive Engineer
RR Nagar Division
BBMP

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EXISTING PHOTOS

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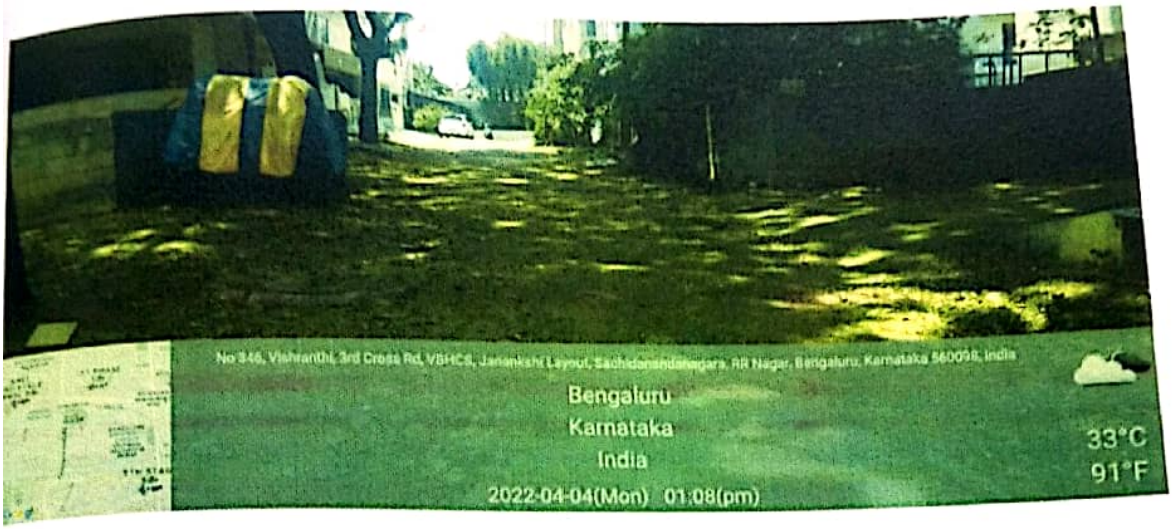

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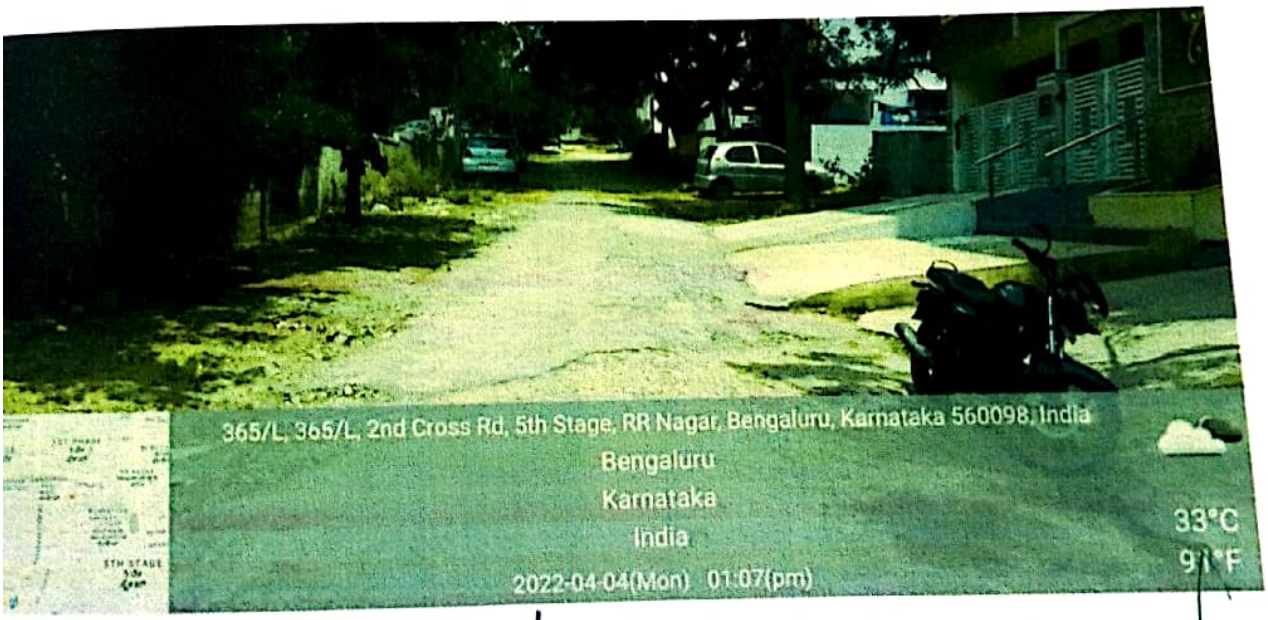

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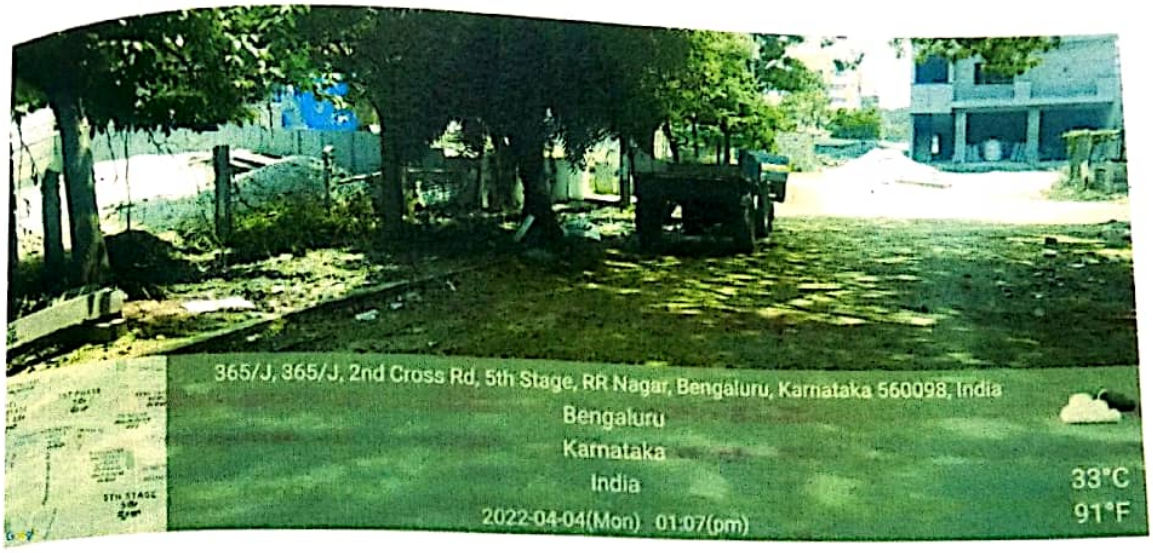

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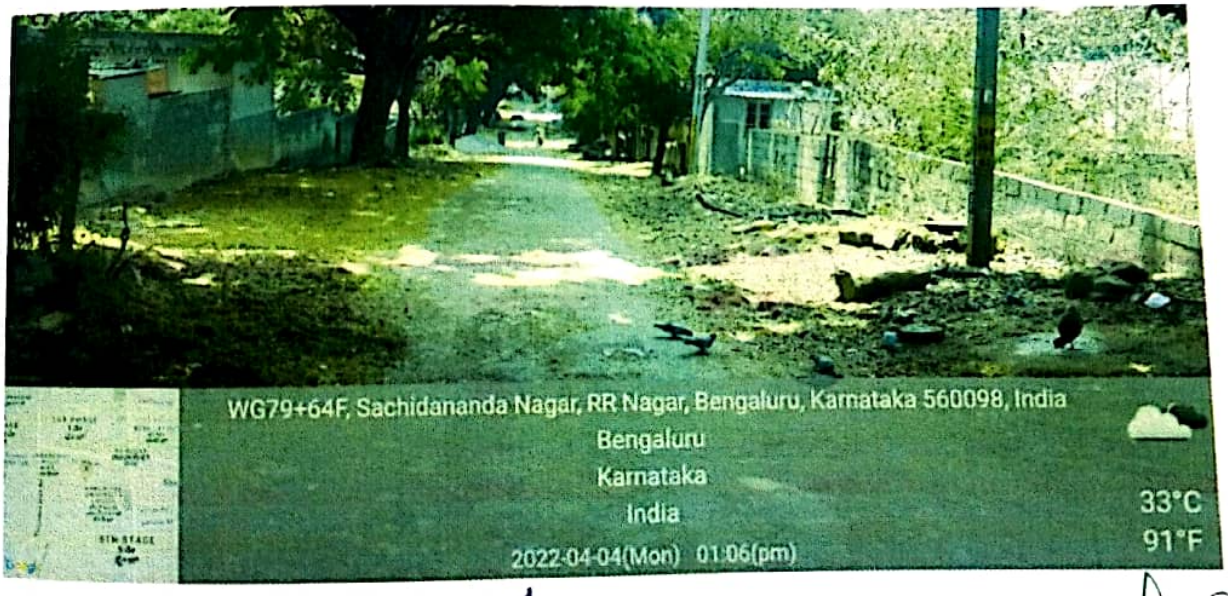

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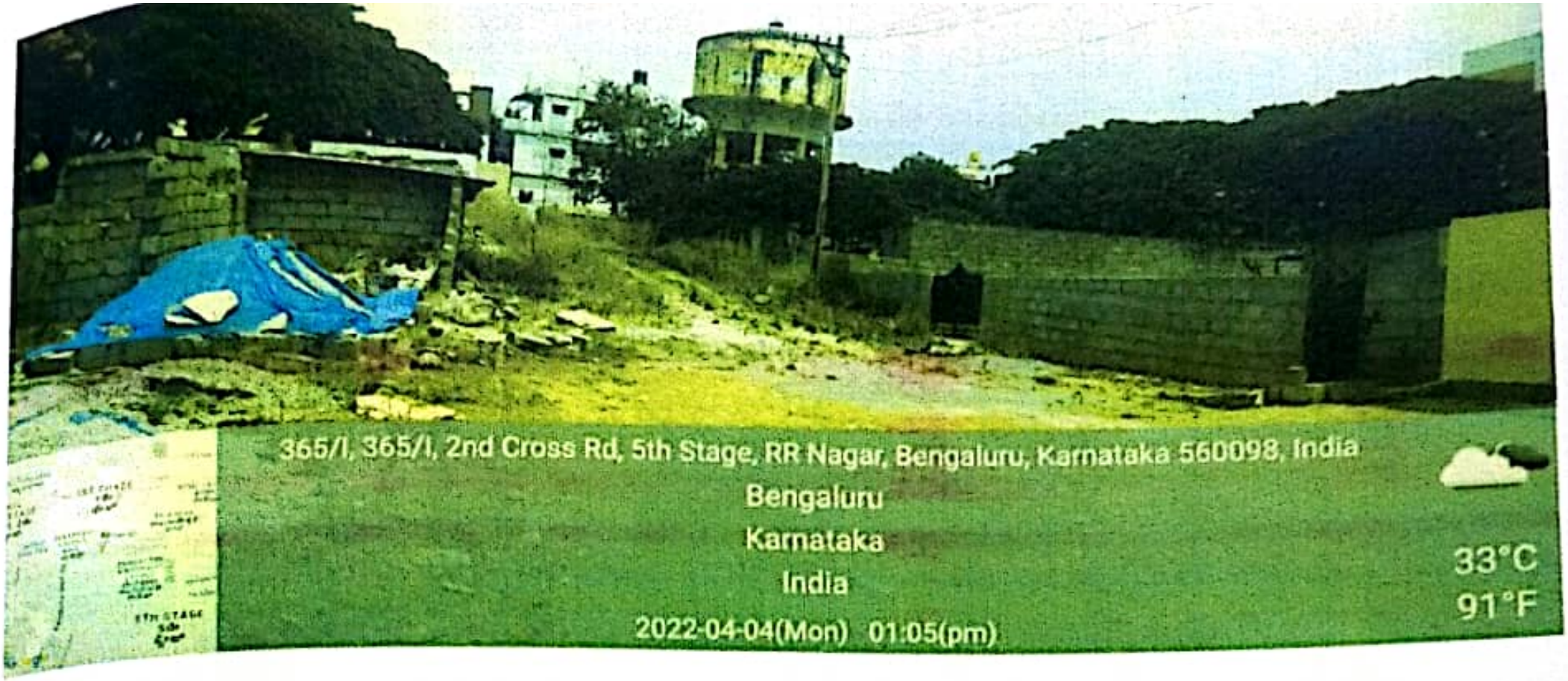

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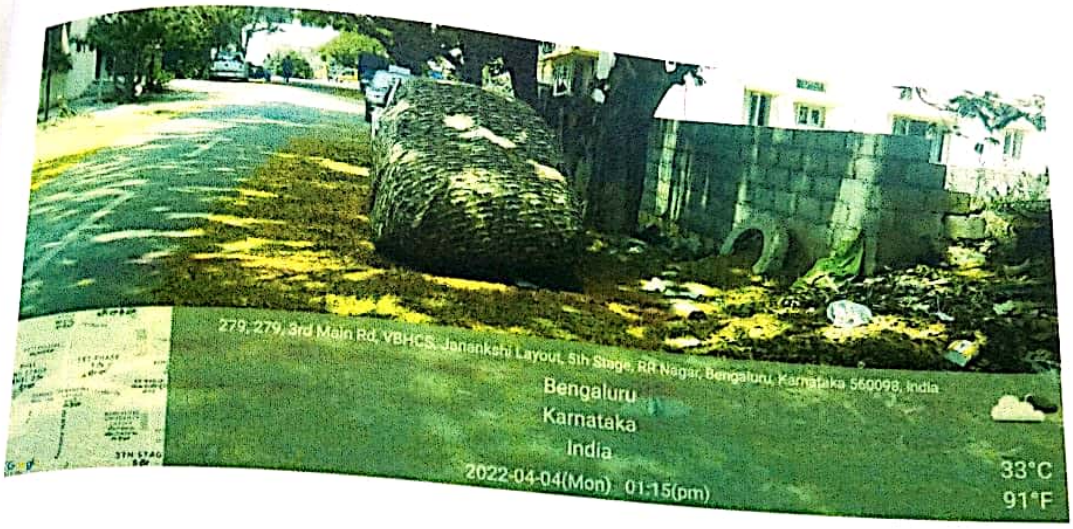

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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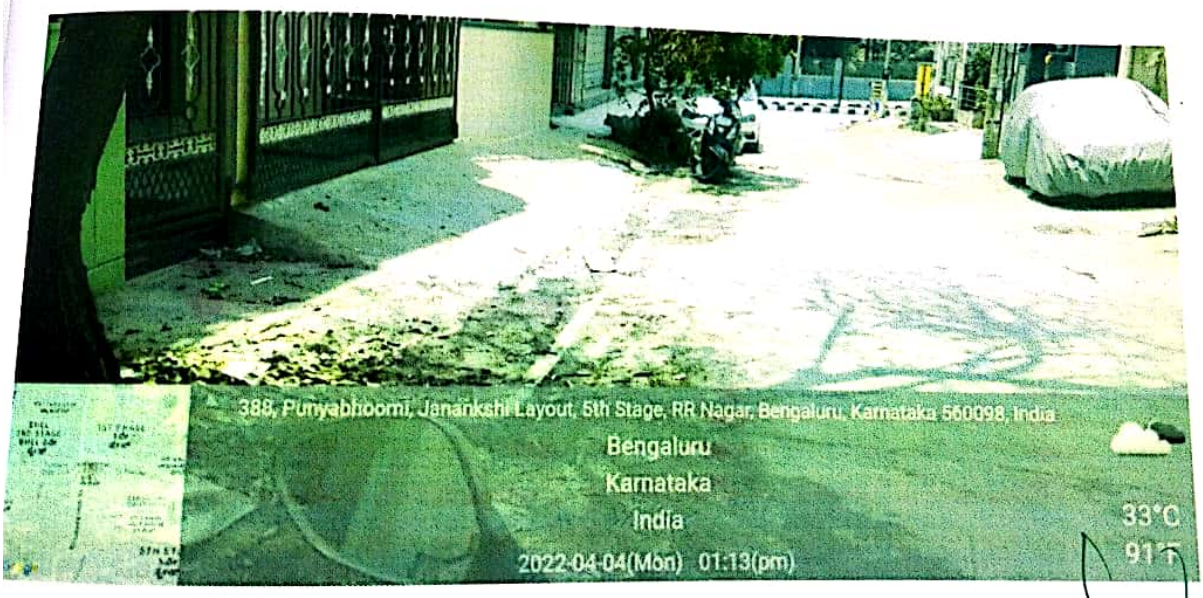

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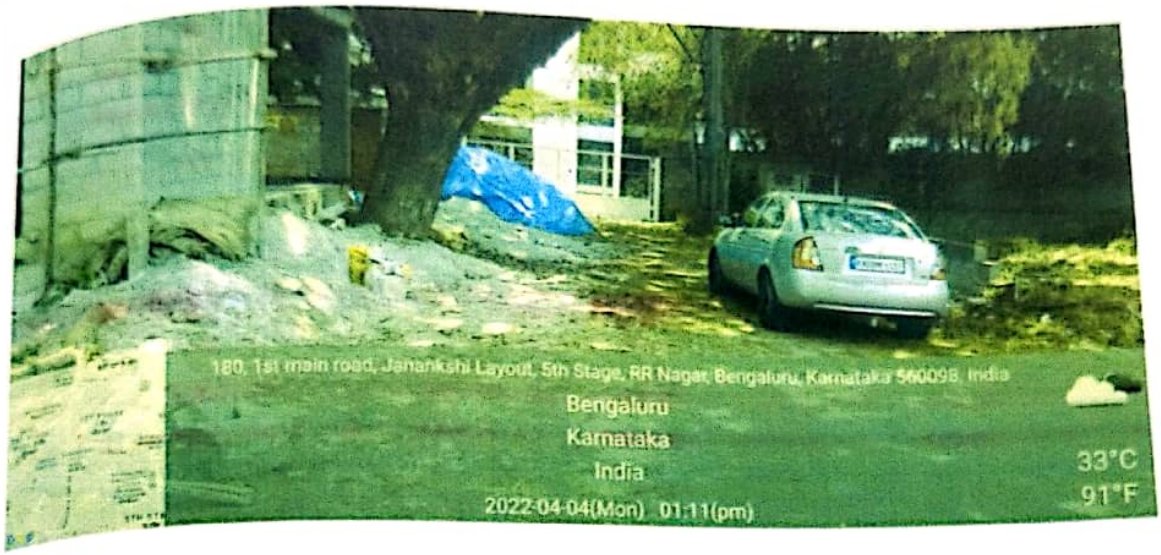

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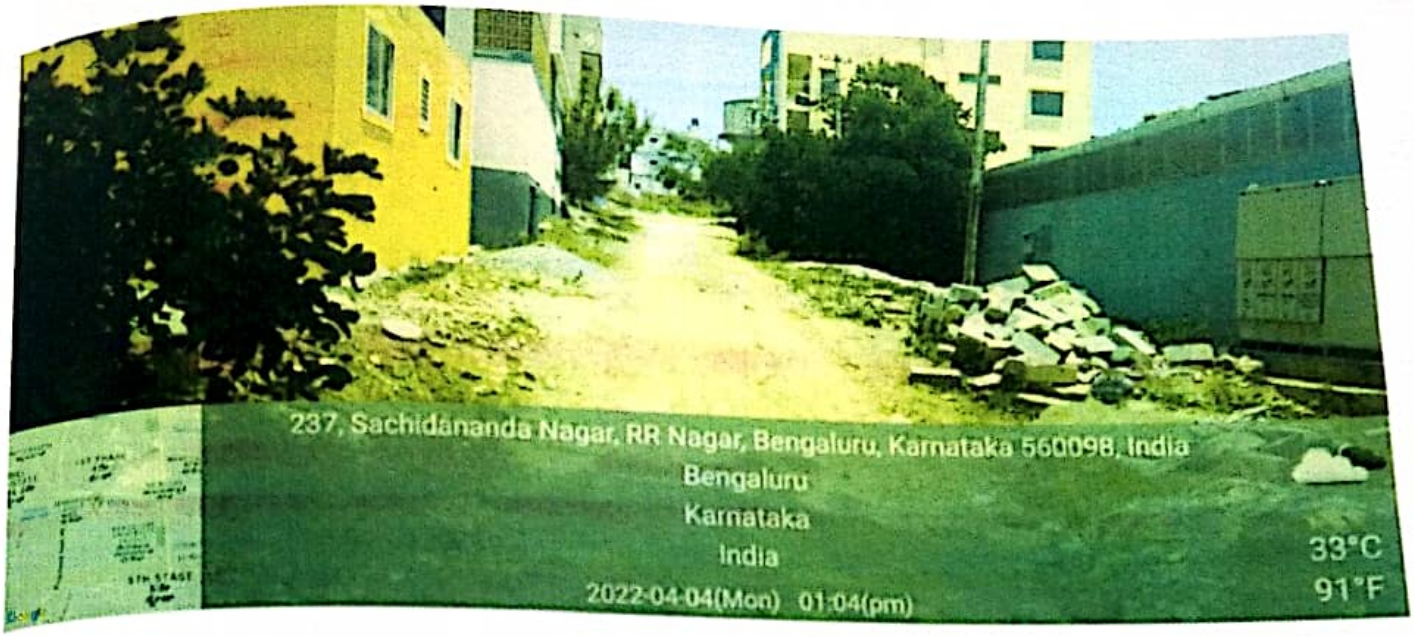

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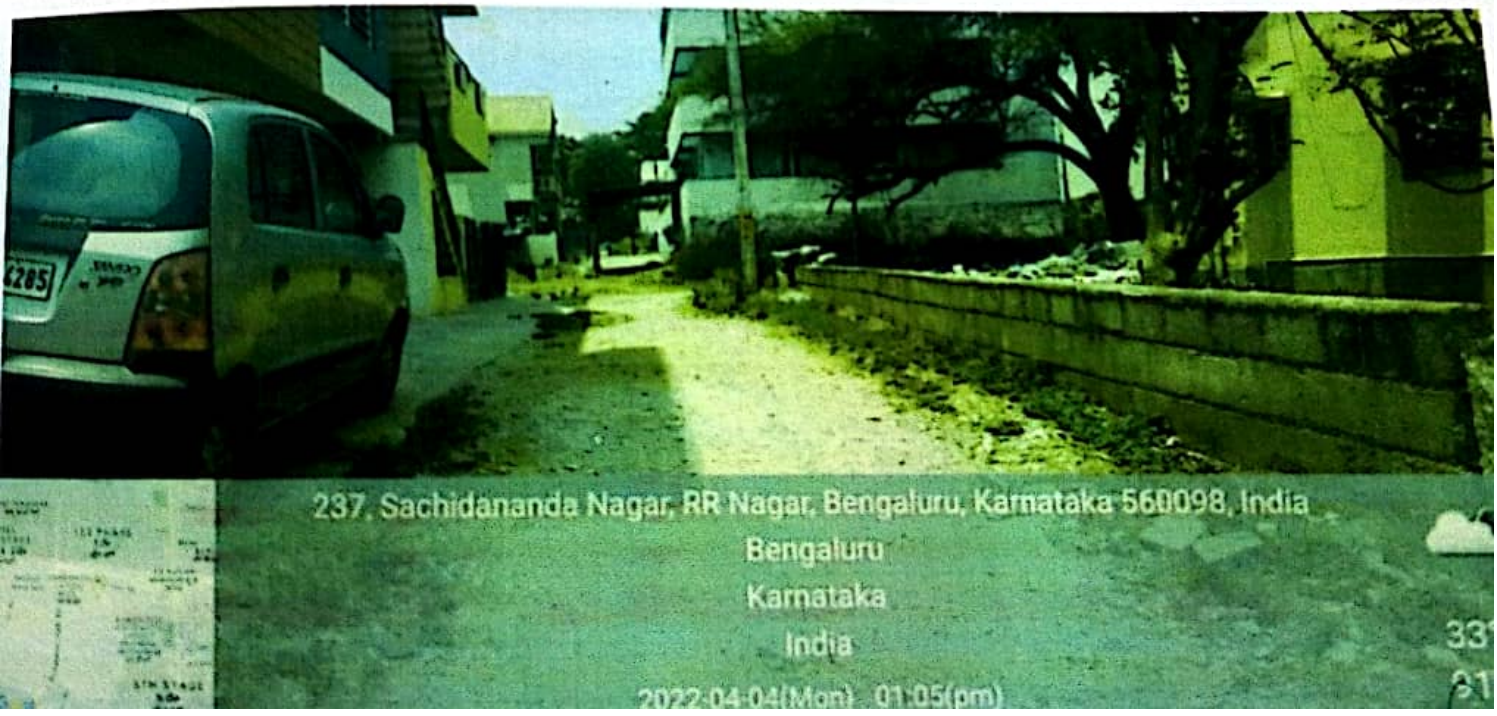

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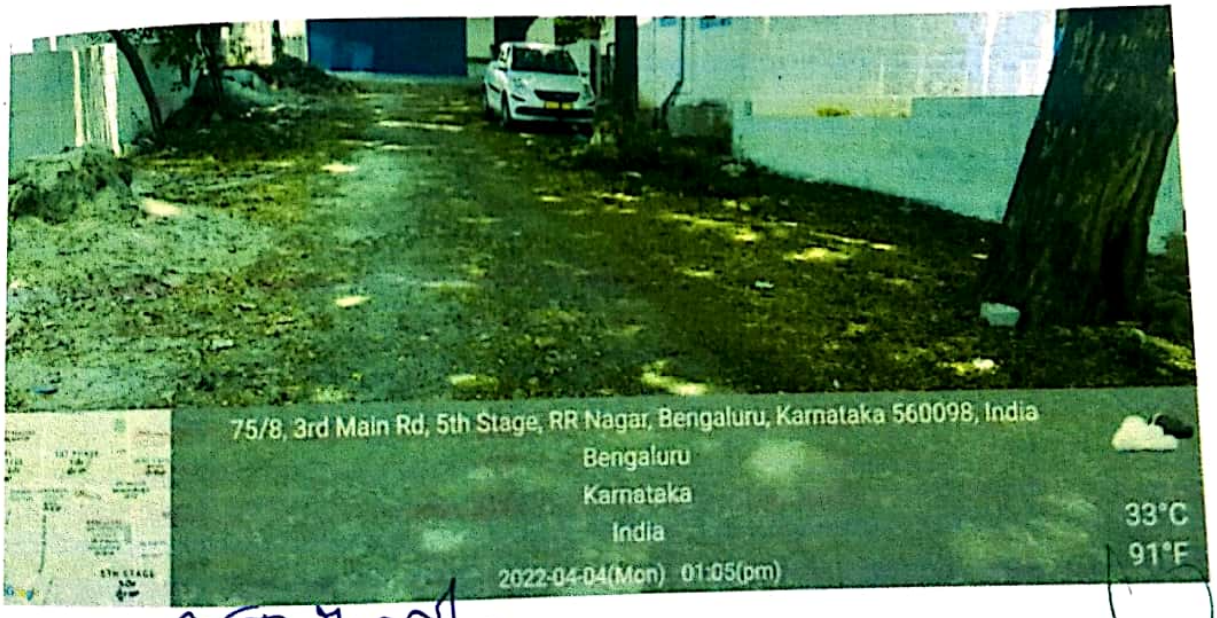

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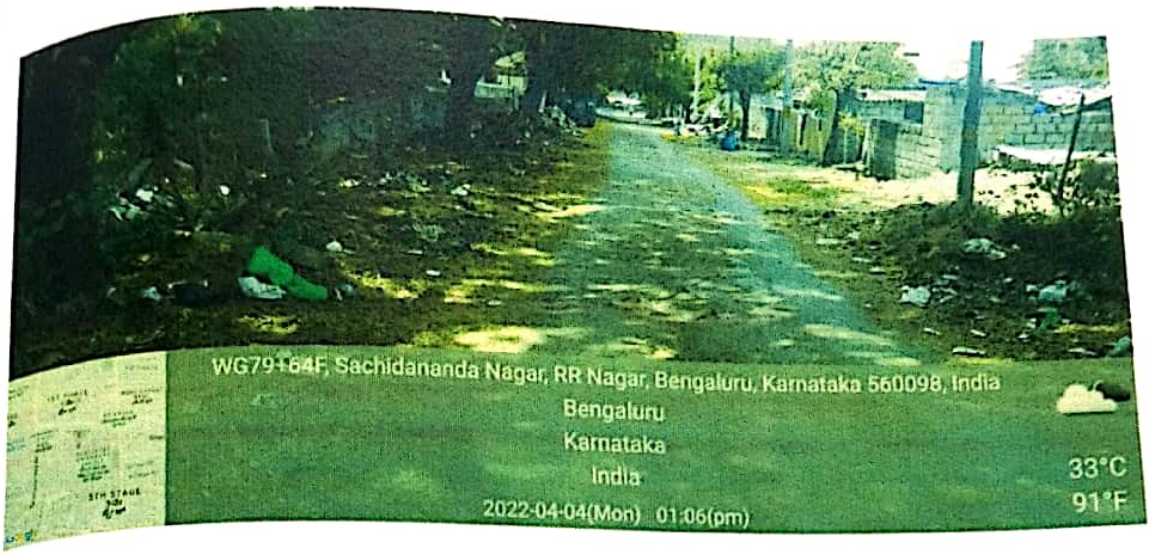

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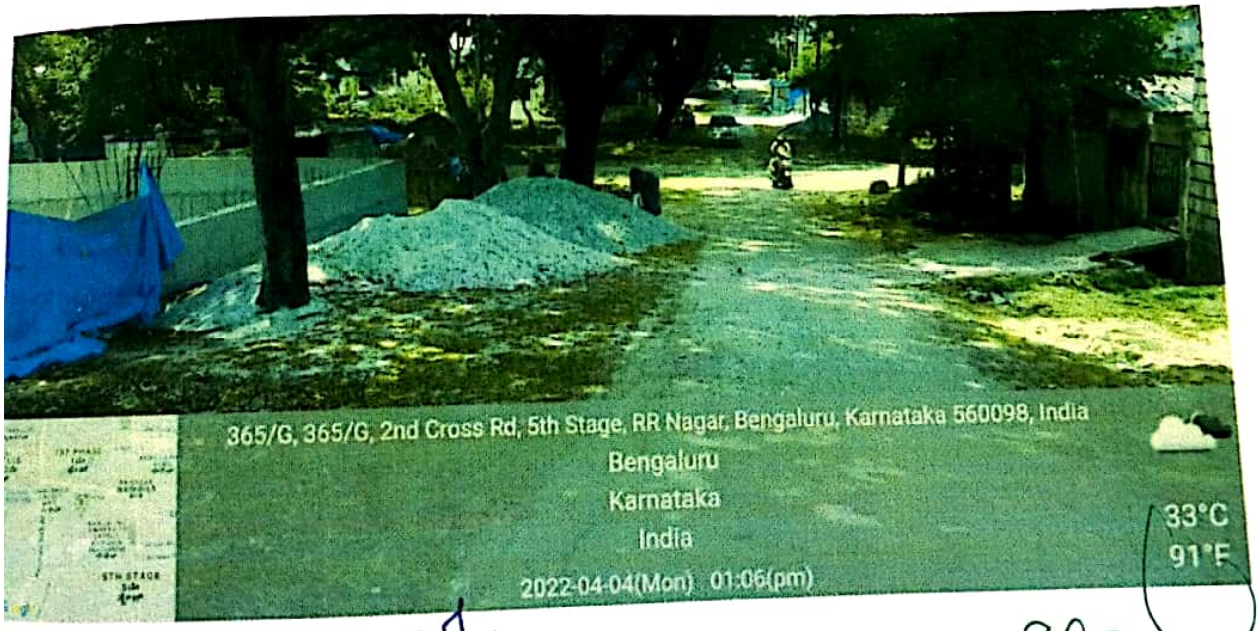

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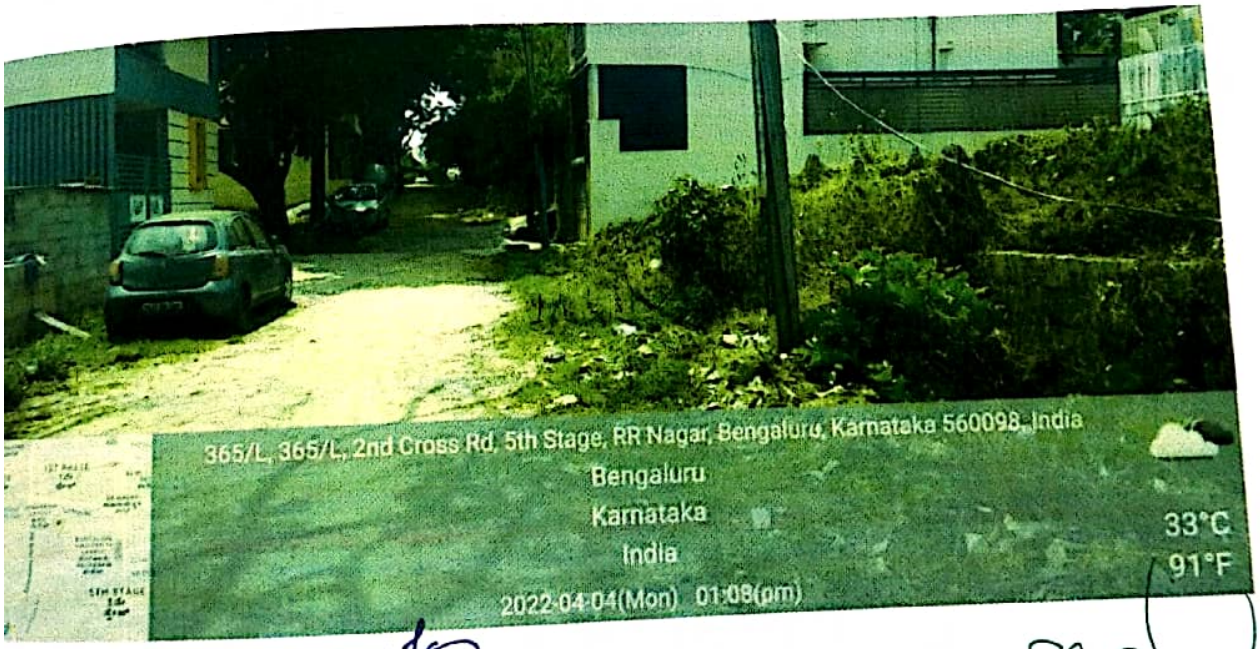

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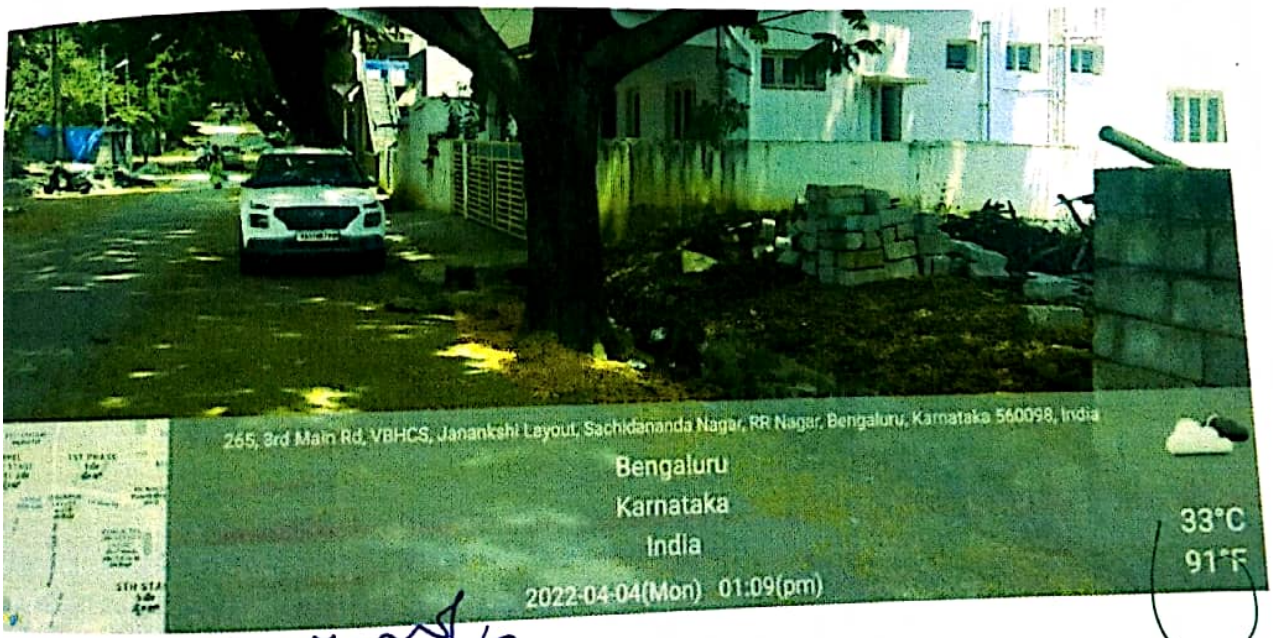

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KEY MAP

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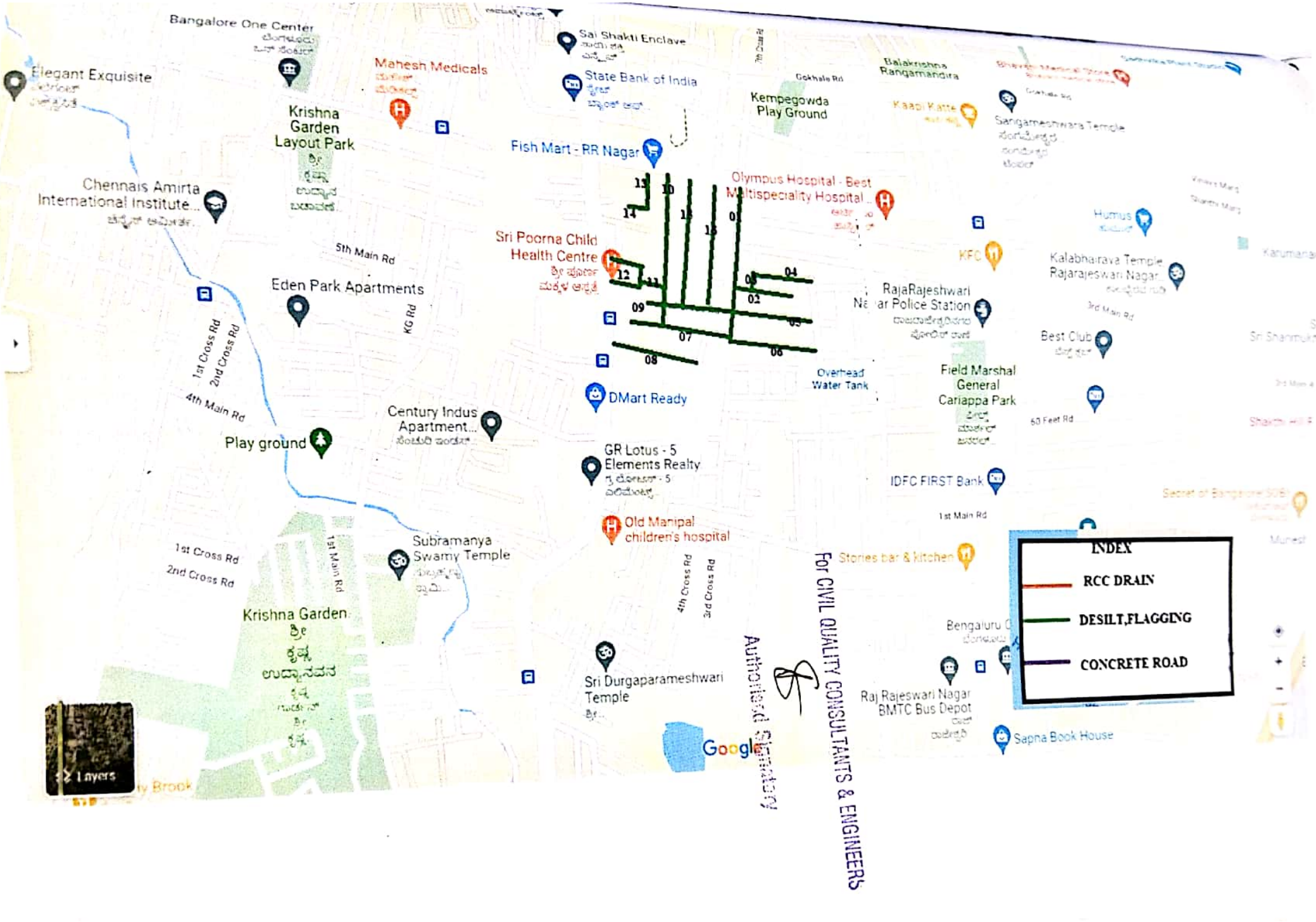

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ESTIMATE(35) :

NAME OF WORK:- IMPROVEMENTS OF CC ROADS & DRAINS IN BALDWIN SCHOOL,CRAZY PARK SURROUNDING AREAS IN RAJARAJESHWARI NAGARA WARD NO 160

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BRUHAT BENGALURU MAHANAGARA PALIKE

Name of Work: Improvements of CC Roads & Drains in Baldwin School,Crazy park surrounding areas in Rajarajeshwari nagara Ward no 160

Est .Cost Rs. 150.00 Lakhs

Sl No	Job no:: Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
1	Removing and Resetting Stone Slabs of drains and pointing in C.M(1:2)	Sqm							
	For Cover Slabs								
	5th Cross road(W1041)		2	114.00	0.90		205.20		
	Best Club Road(W0778)		2	186.00	0.90		334.80		
	4th Cross Road(W1037)		2	114.00	0.90		205.20		
	OPP to Crazy Park Road(W1067)		2	102.00	0.90		183.60		
	8th main Road(Crazy Park road)(W0882)		2	202.80	0.90		365.04		
	2nd Cross Road(W1069)		2	135.00	0.90		243.00		
	3rd main road(W0874)		2	107.40	0.90		193.32		
	1st 'B' Cross Road(W1161)		2	91.20	0.90		164.16		
	1st 'A'Cross Road(W1163)		2	89.40	0.90		160.92		
							2055.24		
	For BS DRAIN SLABS								
	5th Cross road(W1041)		2	190.00	1.35		513.00		
	Best Club Road(W0778)		2	310.00	1.35		837.00		
	4th Cross Road(W1037)		2	190.00	1.35		513.00		
	OPP to Crazy Park Road(W1067)		2	170.00	1.35		459.00		
	8th main Road(Crazy Park road)(W0882)		2	338.00	1.35		912.60		
	2nd Cross Road(W1069)		2	225.00	1.35		607.50		
	3rd main road(W0874)		2	179.00	1.35		483.30		
	1st 'B' Cross Road(W1161)		2	152.00	1.35		410.40		
	1st 'A'Cross Road(W1163)		2	149.00	1.35		402.30		
							5138.10		
							1284.53		
	25% missing Covering Slabs						**3853.58**		
							5908.82	**121.00**	**714966.62**
	Data Rate	121.00							
	Total	**121.00**							

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Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	150.00 Rate	Lakhs Amount
	Job no:-								
2	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.In all kinds of soils Depth upto 1.5 m.Item No.1.4.1,Page No.A(5), Vol I CSR 21-22								
	BALDWIN SCHOOLSUROUNDINGS	Cum							
	FOR DRAIN DESILT								
	5th Cross road(W1041)		2	190.00	0.60	0.45	102.60		
	Best Club Road(W0778)		2	310.00	0.60	0.45	167.40		
	4th Cross Road(W1037)		2	190.00	0.60	0.45	102.60		
	OPP to Crazy Park Road(W1067)		2	170.00	0.60	0.55	112.20		
	8th main Road(Crazy Park road)(W0882)		2	338.00	0.60	0.55	223.08		
	2nd Cross Road(W1069)		2	225.00	0.60	0.50	135.00		
	3rd main road(W0874)		2	179.00	0.60	0.40	85.92		
	1st 'B' Cross Road(W1161)		2	152.00	0.60	0.45	82.08		
	1st 'A'Cross Road(W1163)		2	149.00	0.60	0.45	80.46		
	New Culverts		3	5.80	1.20	1.10	22.97		
							1011.71	**363.56**	**367816.56**
	Basic Rate	186.00							
	Loading & unLoading	118.00							
	Add for lead for earth (1.28 Tonne / Cum) 16km	40.96							
	Area Weightage @ 10%	18.60							
	Total	**363.56**							
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately).Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates.**Item No.2.1.3,Page No.15, Vol I CSR 21-22**								
		Cum							
	New Culverts		3	5.80	1.20	0.15	3.13		
							3.13	**6327.20**	**19816.79**
	Basic Rate	5752.00							
	Area Weightage @ 10%	575.20							
	Total	**6327.20**							

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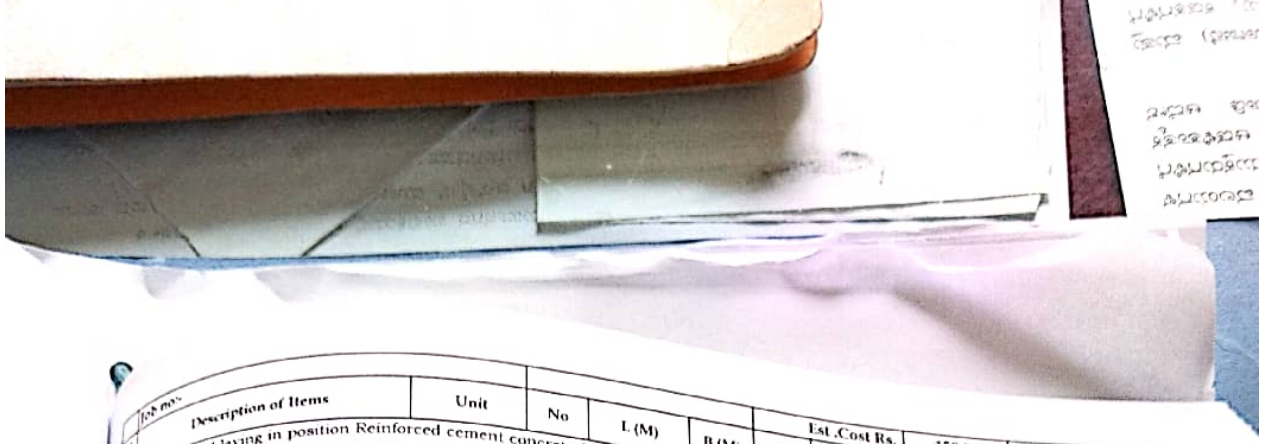

Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	150.00 Rate	Lakhs Amount
4	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges ofmachineryincuringandallother.appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately).M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates.Item No.2.4.2,Page No.17, Vol I CSR 21-22								
		Cum							
	New Culverts		3	5.80	1.20	0.20	4.18		
	New Culverts		6	5.80	0.23	0.60	4.80		
	Basic Rate	6256.00					**8.98**	**7225.68**	**64875.05**
	Formwork (5%)	312.80							
	Sub Total	6568.80							
	Area Weightage @ 10%	656.88							
	Total	**7225.68**							
5	Supplying, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / Substructure / Superstructure complete as per Drawing and Technical Specifications. **Item No.9.3 ,Page No.71, Vol III SR 21-22**								
	ISSUE RATE DATE(7-04-2022)								
	For RCC CULVERT	**Tonne**							
	Total RCC Quantity =	kg					8.98		
	For 1 CUM = 80	Kg					80.00		
		Kg					718.27		
		Tonne					**0.72**	**103724.50**	**74502.40**
	Basic Rate	94295.00							
	Area Weightage @ 10%	9,429.50							
	Total	**103724.50**							
6	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.Item No.6.33,Page No.17, Vol II SR 21-22								
	Flagging Course	Sqm							
	Road side								
	5th Cross road(W1041)		2	133.00		0.20	53.20		
	Best Club Road(W0778)		2	217.00		0.20	86.80		
	4th Cross Road(W1037)		2	133.00		0.20	53.20		
	OPP to Crazy Park Road(W1067)		2	119.00		0.20	47.60		
	8th main Road(Crazy Park road)(W0882)		2	236.60		0.20	94.64		
	2nd Cross Road(W1069)		2	157.50		0.20	63.00		
	3rd main road(W0874)		2	125.30		0.20	50.12		
	1st 'B' Cross Road(W1161)		2	106.40		0.20	42.56		
	1st 'A'Cross Road(W1163)		2	104.30		0.20	41.72		
	OFF SIDE								

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Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	150.00 Rate	Lakhs Amount
	5th Cross road(W1041)		2	133.00		0.20	53.20		
	Best Club Road(W0778)		2	217.00		0.20	86.80		
	4th Cross Road(W1037)		2	133.00		0.20	53.20		
	OPP to Crazy Park Road(W1067)		2	119.00		0.20	47.60		
	8th main Road(Crazy Park road)(W0882)		2	236.60		0.20	94.64		
	2nd Cross Road(W1069)		2	157.50		0.20	63.00		
	3rd main road(W0874)		2	125.30		0.20	50.12		
	1st 'B' Cross Road(W1161)		2	106.40		0.20	42.56		
	1st 'A'Cross Road(W1163)		2	104.30		0.20	41.72		
	Basic Rate	1067.00					1065.68	1173.70	1250788.62
	Area Weightage @ 10%	106.70							
	Total	1173.70							

7 Providing Flush/ Ruled pointing: Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge.**Item No.8.19.1,Page No.44, Vol II SR 21-22**

Flagging Course	Sqm							
5th Cross road(W1041)		4	133.00		0.20	106.40		
Best Club Road(W0778)		4	217.00		0.20	173.60		
4th Cross Road(W1037)		4	133.00		0.20	106.40		
OPP to Crazy Park Road(W1067)		4	119.00		0.20	95.20		
8th main Road(Crazy Park road)(W0882)		4	236.60		0.20	189.28		
2nd Cross Road(W1069)		4	157.50		0.20	126.00		
3rd main road(W0874)		4	125.30		0.20	100.24		
1st 'B' Cross Road(W1161)		4	106.40		0.20	85.12		
1st 'A'Cross Road(W1163)		4	104.30		0.20	83.44		
						1065.68	220.00	234449.60
Basic Rate	200.00							
Area Weightage @ 10%	20.00							
Total	220.00							

9 Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately).Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate.**Item No.2.1.4,Page No.15, Vol I SR 21-22**

Cont...

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Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	150.00 Rate	Lakhs Amount
	5th Cross road(W1041)		4	133.00	0.15	0.10	7.98		
	Best Club Road(W0778)		4	217.00	0.15	0.10	13.02		
	4th Cross Road(W1037)		4	133.00	0.15	0.10	7.98		
	OPP to Crazy Park Road(W1067)		4	119.00	0.15	0.10	7.14		
	8th main Road(Crazy Park road)(W0882)		4	236.60	0.15	0.10	14.20		
	2nd Cross Road(W1069)		4	157.50	0.15	0.10	9.45		
	3rd main road(W0874)		4	125.30	0.15	0.10	7.52		
	1st 'B' Cross Road(W1161)		4	106.40	0.15	0.10	6.38		
	1st 'A'Cross Road(W1163)		4	104.30	0.15	0.10	6.26		
	FOR KERB BED								
	5th Cross road(W1041)		2	133.00	0.15	0.05	2.00		
	Best Club Road(W0778)		2	217.00	0.15	0.05	3.26		
	4th Cross Road(W1037)		2	133.00	0.15	0.05	2.00		
	OPP to Crazy Park Road(W1067)		2	119.00	0.15	0.05	1.79		
	8th main Road(Crazy Park road)(W0882)		2	236.60	0.15	0.05	3.55		
	2nd Cross Road(W1069)		2	157.50	0.15	0.05	2.36		
	3rd main road(W0874)		2	125.30	0.15	0.05	1.88		
	1st 'B' Cross Road(W1161)		2	106.40	0.15	0.05	1.60		
	1st 'A'Cross Road(W1163)		2	104.30	0.15	0.05	1.56		
							99.91	**6518.60**	**651257.03**
	Basic Rate	5926.00							
	Area Weightage @ 10%	592.60							
	Total	**6518.60**							
10	Providing **granite slabs** of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.- do - **7.5 cms thick** (P-27/5.31.1) PWD SR 2018-19								
		Sqm					1284.53		
	25% missing BS Drain Slabs								
							1284.53	**742.00**	**953117.55**
	Basic Rate	700.00							
	Area Weightage @ 6%	42.00							
	Total	**742.00**							
11	Providing B S Slabs of selected quality roughly dressed having a size of 10cms thick and fixed in cement mortar (1:6) including fixing curing etc., complete.as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)								
		Sqm							
	5th Cross road(W1041)		2	76.00	0.90		136.80		
	Best Club Road(W0778)		2	124.00	0.90		223.20		
	4th Cross Road(W1037)		2	76.00	0.90		136.80		

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Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	150.00 Rate	Lakhs Amount
	OPP to Crazy Park Road(W1067)		2	68.00	0.90		122.40		
	8th main Road(Crazy Park road)(W0882)		2	135.20	0.90		243.36		
	2nd Cross Road(W1069)		2	90.00	0.90		162.00		
	3rd main road(W0874)		2	71.60	0.90		128.88		
	1st 'B' Cross Road(W1161)		2	60.80	0.90		109.44		
	1st 'A'Cross Road(W1163)		2	59.60	0.90		107.28		
	Data Rate	837.00					1370.16	837.00	1146823.92
	Total	**837.00**							
12	Providing one line dressing to granite stone slab / granite stone masonry as per specifications. as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)								
		Sqm							
	New Slab QTY						1370.16		
	FOR R&R QTY						2055.24		
							3425.40	**242.00**	**828946.80**
	Data Rate	242.00							
	Total	**242.00**							
13	Providing Machine Cutting edges to B S Slabs 2.5cms.wide as per Specifications.(Only Chamfered length Shall be recorded Inclusive of all taxes Complete.,as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)								
		m							
				2537.00	3.00		7611.00		
							7611.00	**390.00**	**2968290.00**
	Data Rate	390.00							
	Total	**390.00**							
14	Providing & laying precast drain cover slab of 230 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.60 x 0.23) (Approved Data rate)								
		Sqm							
	New Culverts		3	5.80	1.20		20.88		
							20.88	**5037.00**	**105172.56**
	Data Rate	5037.00							
	Total	**5037.00**							
15	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165mm respectively,400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork,curing including cost of materials,labour charges of machinery,loading and unloading,lead and lift,transportation etc., complete as directed by the Engineer in charge of the work (Excluding GST and Area Leading Charges)								
		MTR							
	5th Cross road(W1041)		2	133.00			266.00		
	Best Club Road(W0778)		2	217.00			434.00		
	4th Cross Road(W1037)		2	133.00			266.00		
	OPP to Crazy Park Road(W1067)		2	119.00			238.00		
	8th main Road(Crazy Park road)(W0882)		2	236.60			473.20		
	2nd Cross Road(W1069)		2	157.50			315.00		

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Job no:- Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	150.00 Rate	Lakhs Amount
3rd main road(W0874)		2	125.30			250.60		
1st 'B' Cross Road(W1161)		2	106.40			212.80		
1st 'A'Cross Road(W1163)		2	104.30			208.60		
						2664.20		
Length /0.45								
Basic Rate	423.00					5920.44	507.00	3001665.33
Area Weightage @ 10%	42.30							
Total	465.30							
Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces.Painting Two Coats on New Concrete Surfaces.**Item No.8.1,Page No.56, Vol III SR 21-22**	Sqm							
		1	2664.20		0.30	799.26		
						799.26	93.50	74730.81
Basic Rate	85.00							
Area Weightage @ 10%	8.50							
Total	93.50							
Sub Total								12457219.63
GST 18%								2242299.53
Project Management Consultancy 1%								150000.00
Detailed project report 1%								150000.00
Miscellaneous								480.83
Total								1,50,00,000.00

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary

2 The Estimate is prepared as per the PWD SR 2021-22 & PWD SR-2018-19,Issue Rate 07/04/2022

3 The Provision made in estimate are adequate and essential

4 This area comes under BBMP limits.

for CIVIL QUALITY CONSULTANTS & ENGINEERS

Consultants

Authorised Signatory

Asst Engineer
Ward No- 160
BBMP

Asst Executive Engineer
RR Nagar Sub Division
BBMP

Executive Engineer
RR Nagar Division
BBMP

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KEY MAP

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FOR CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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EXISTING PHOTOS

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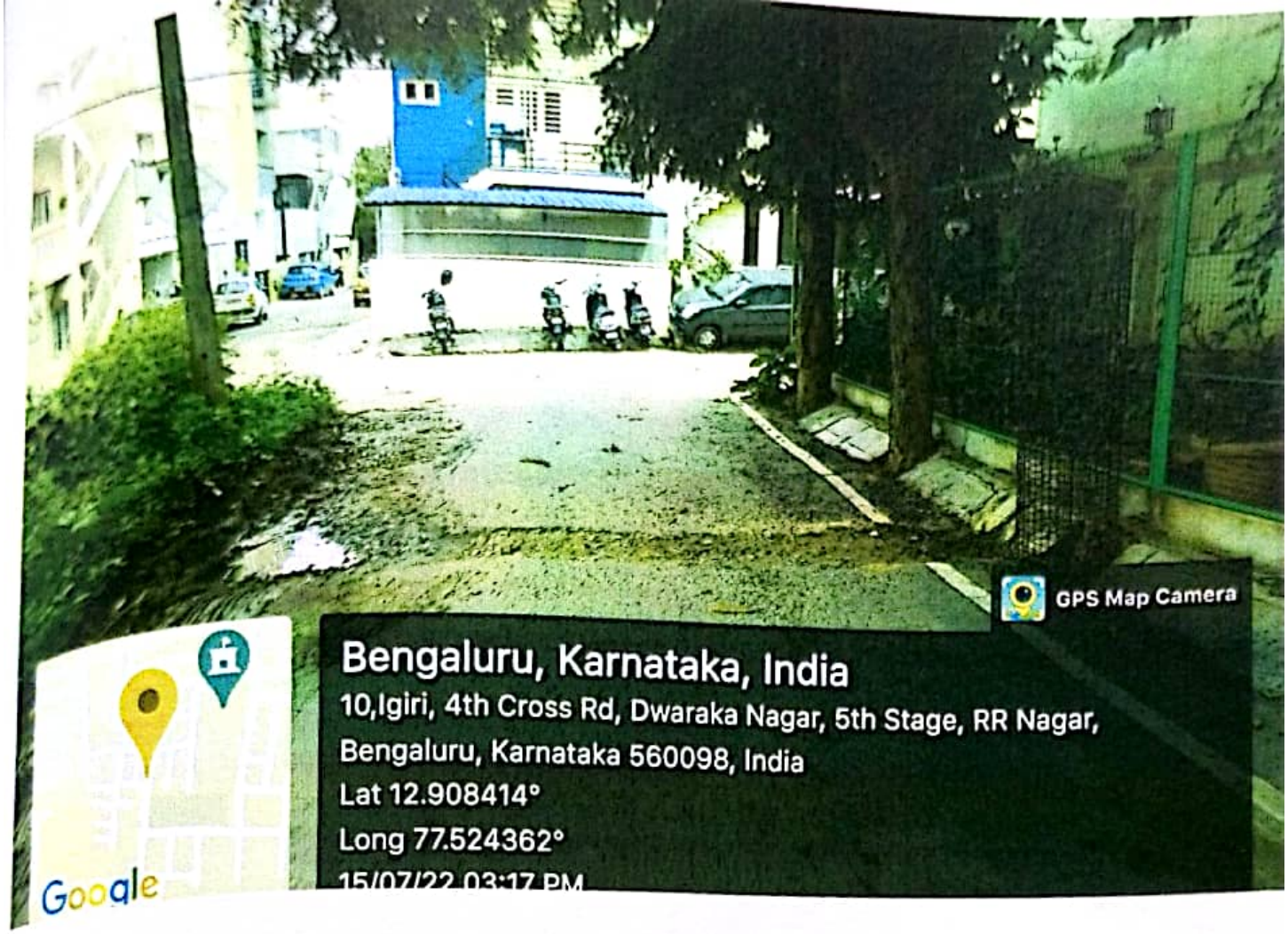

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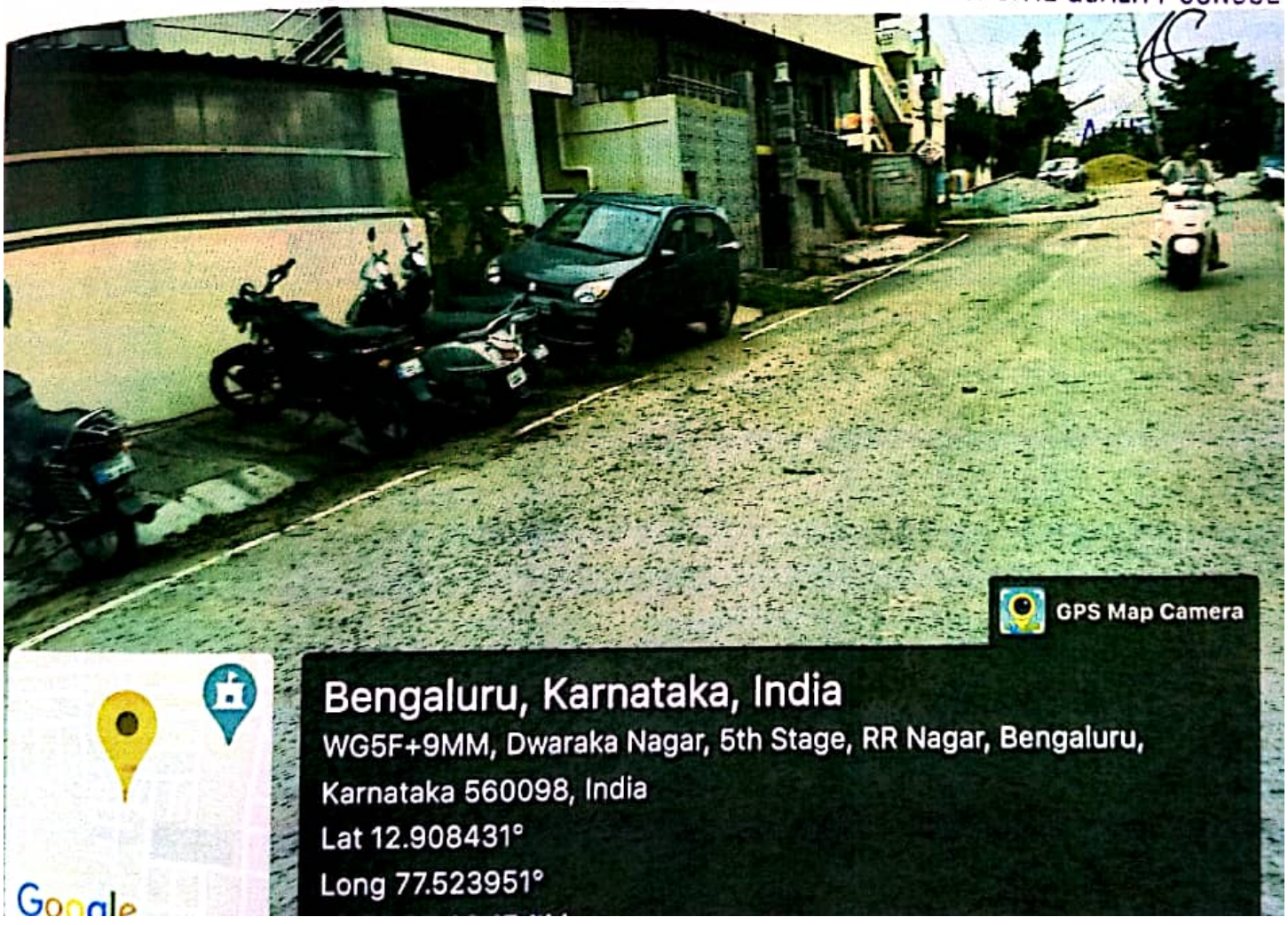

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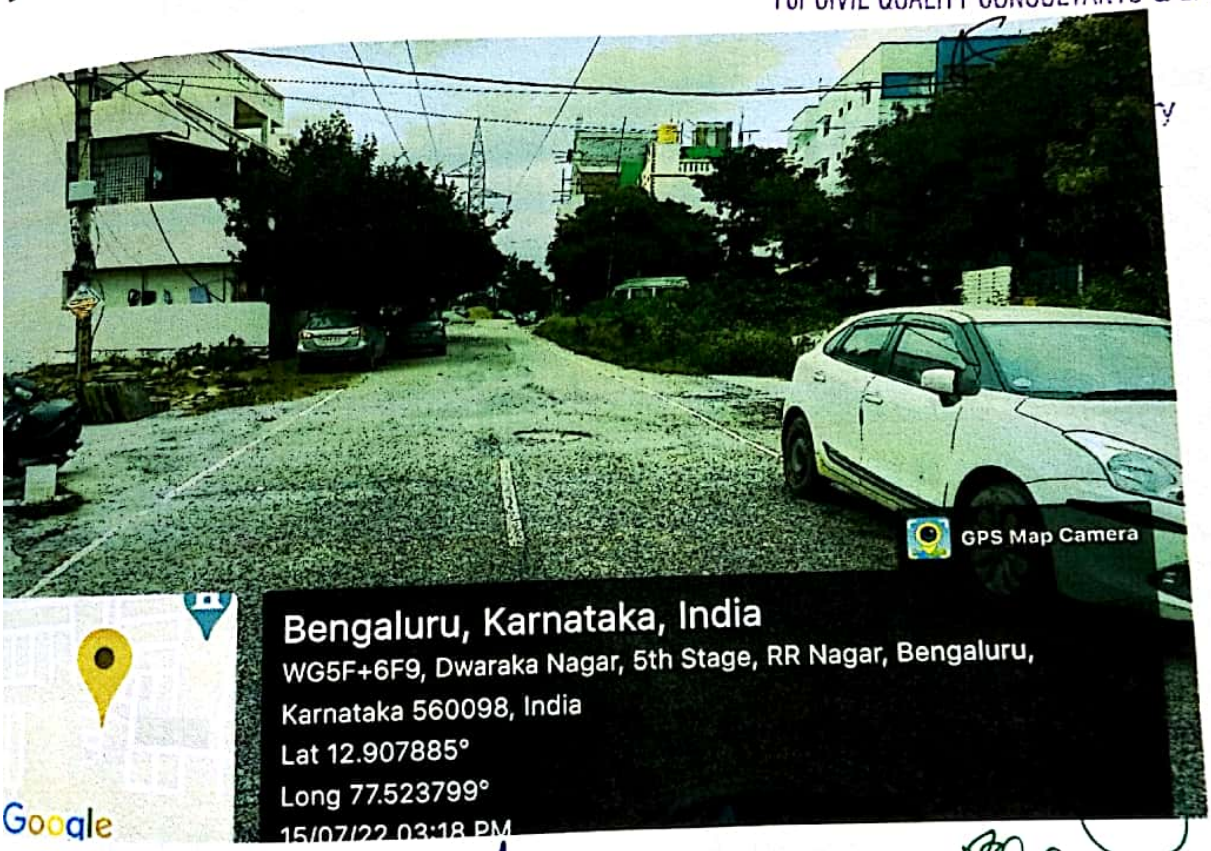

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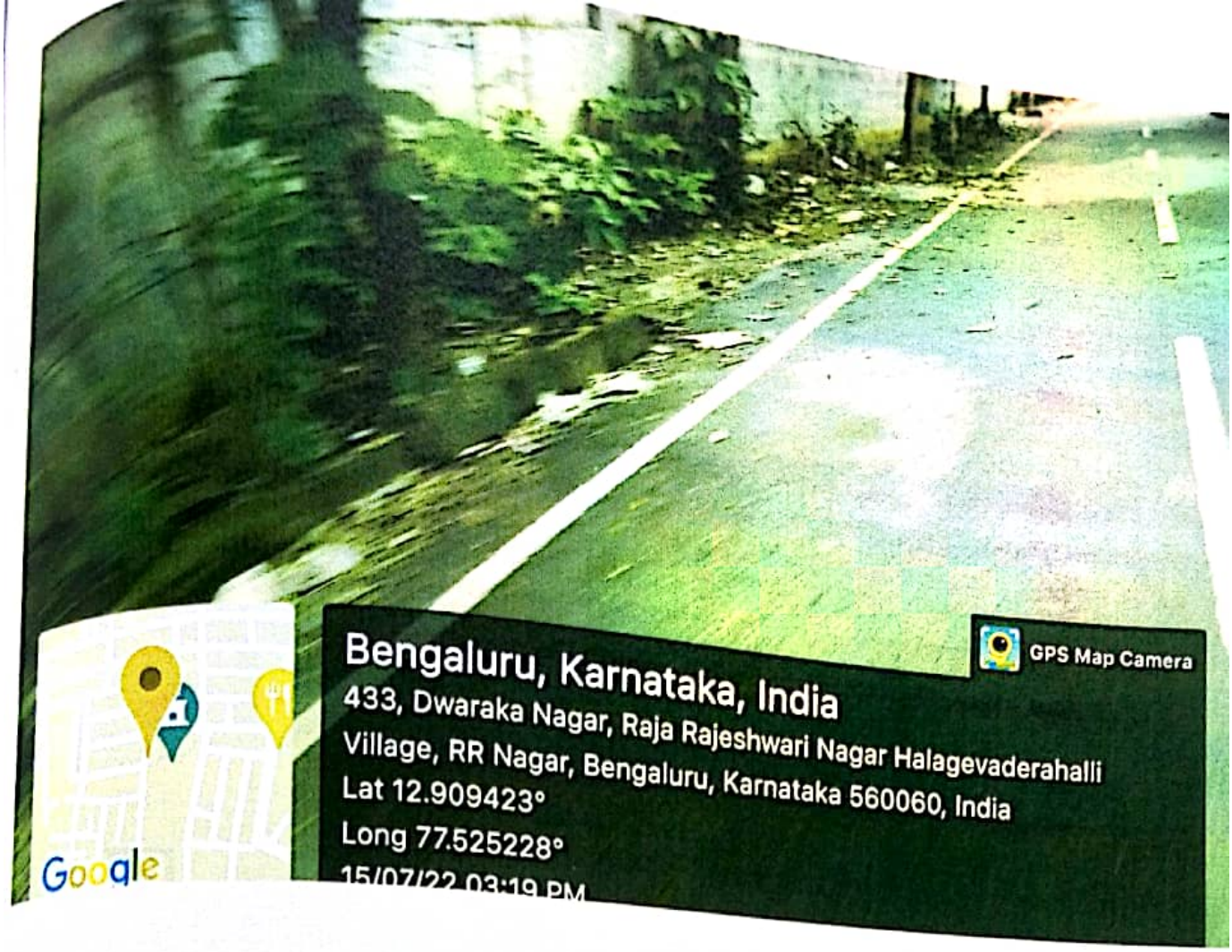

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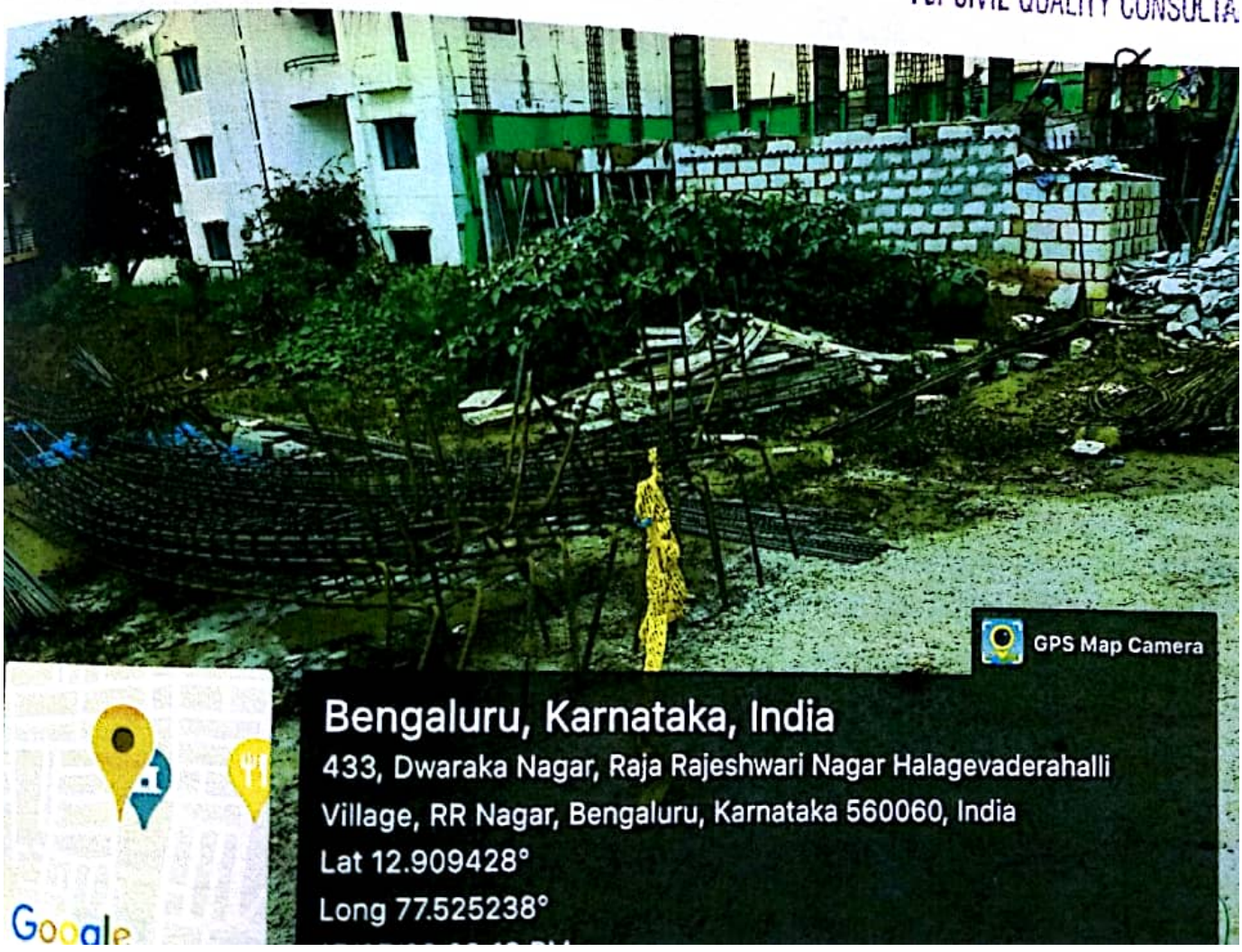

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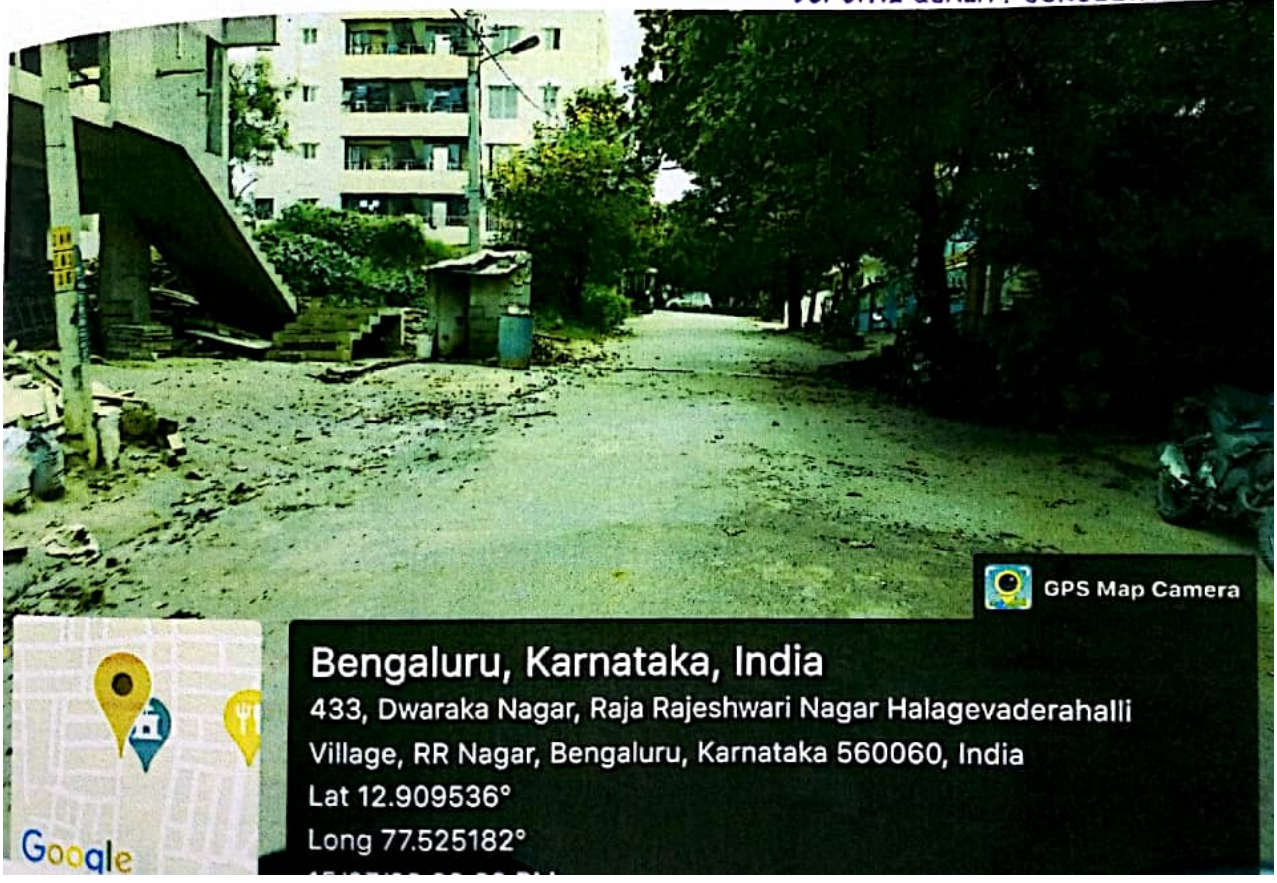

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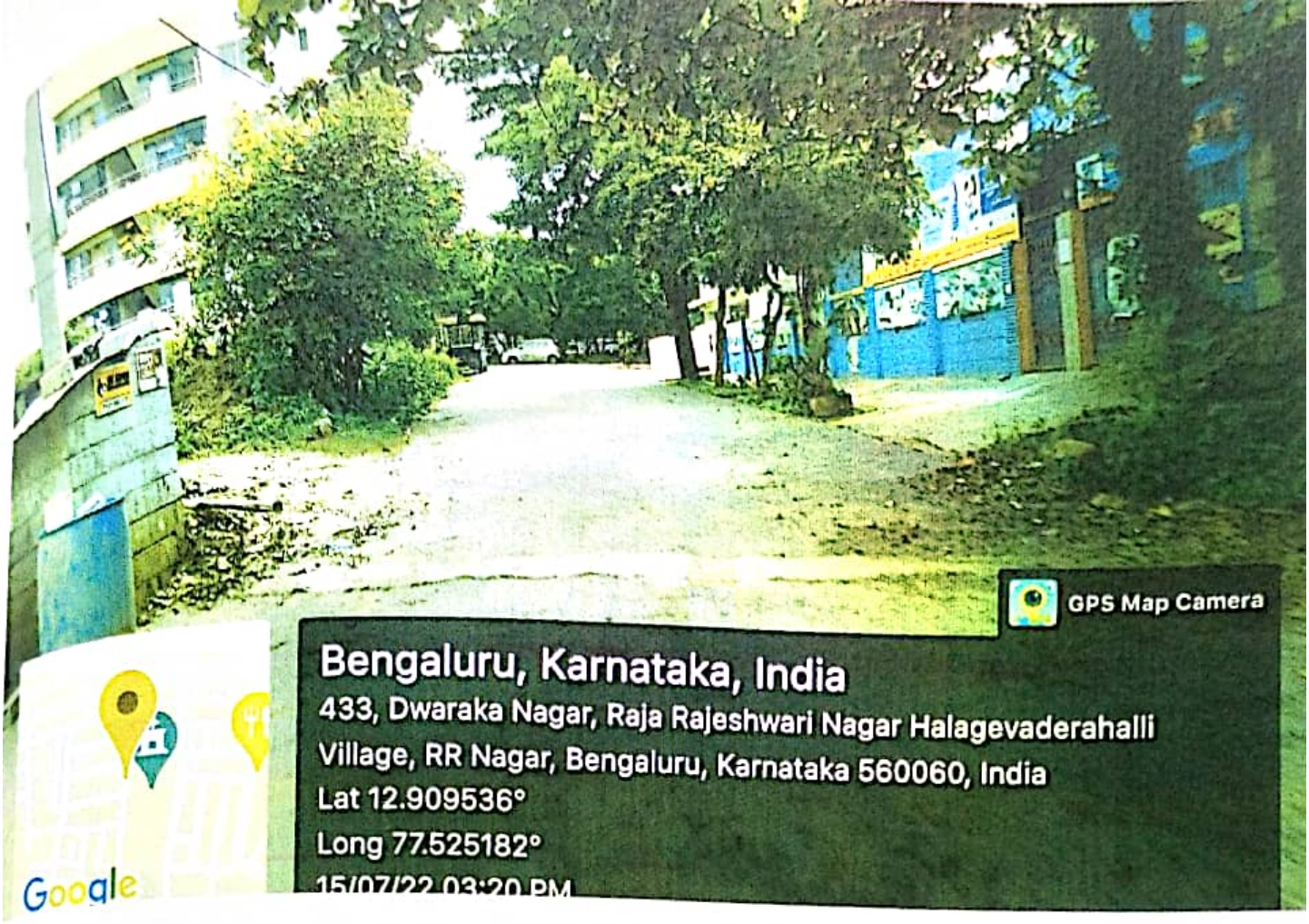

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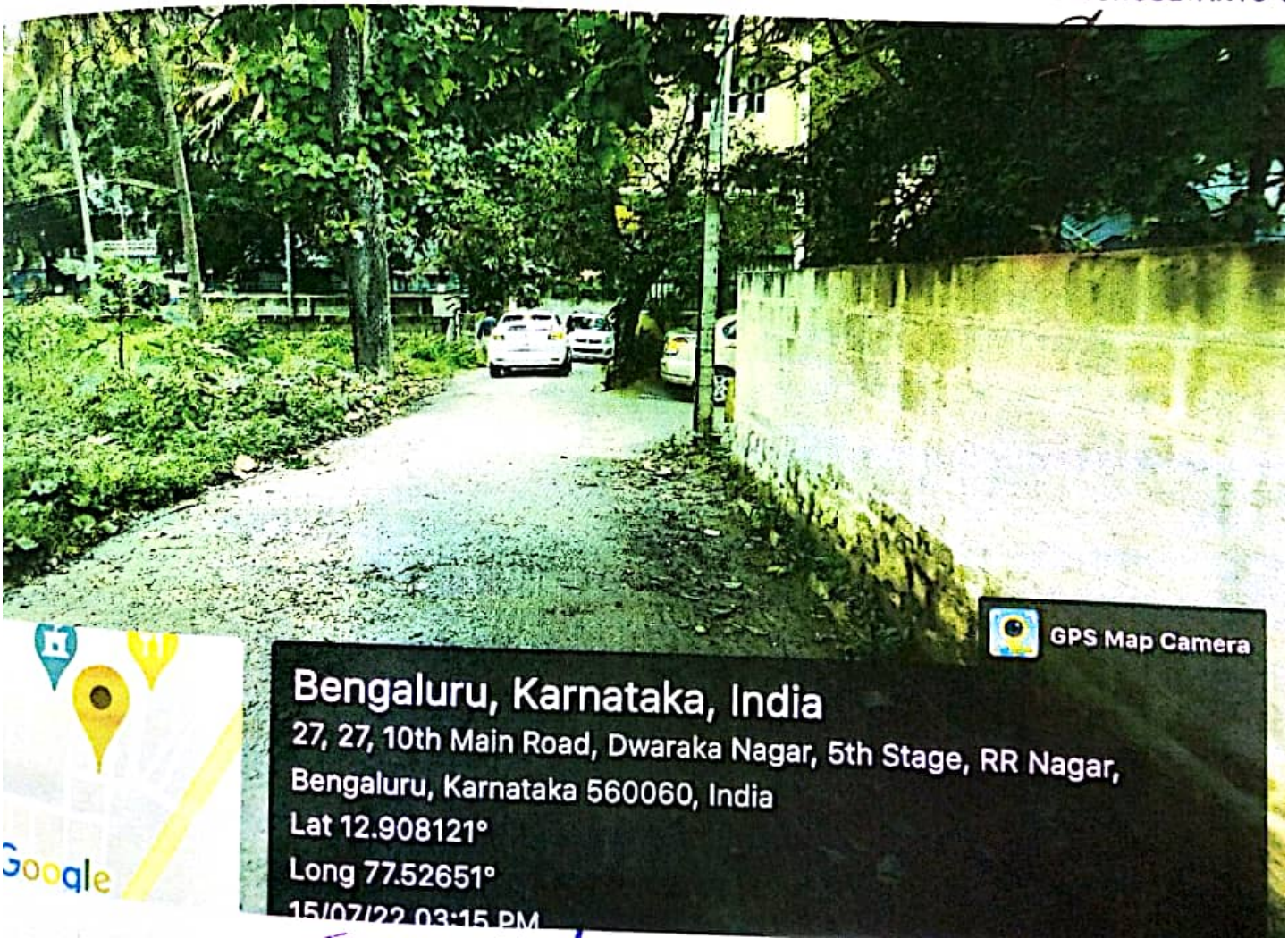

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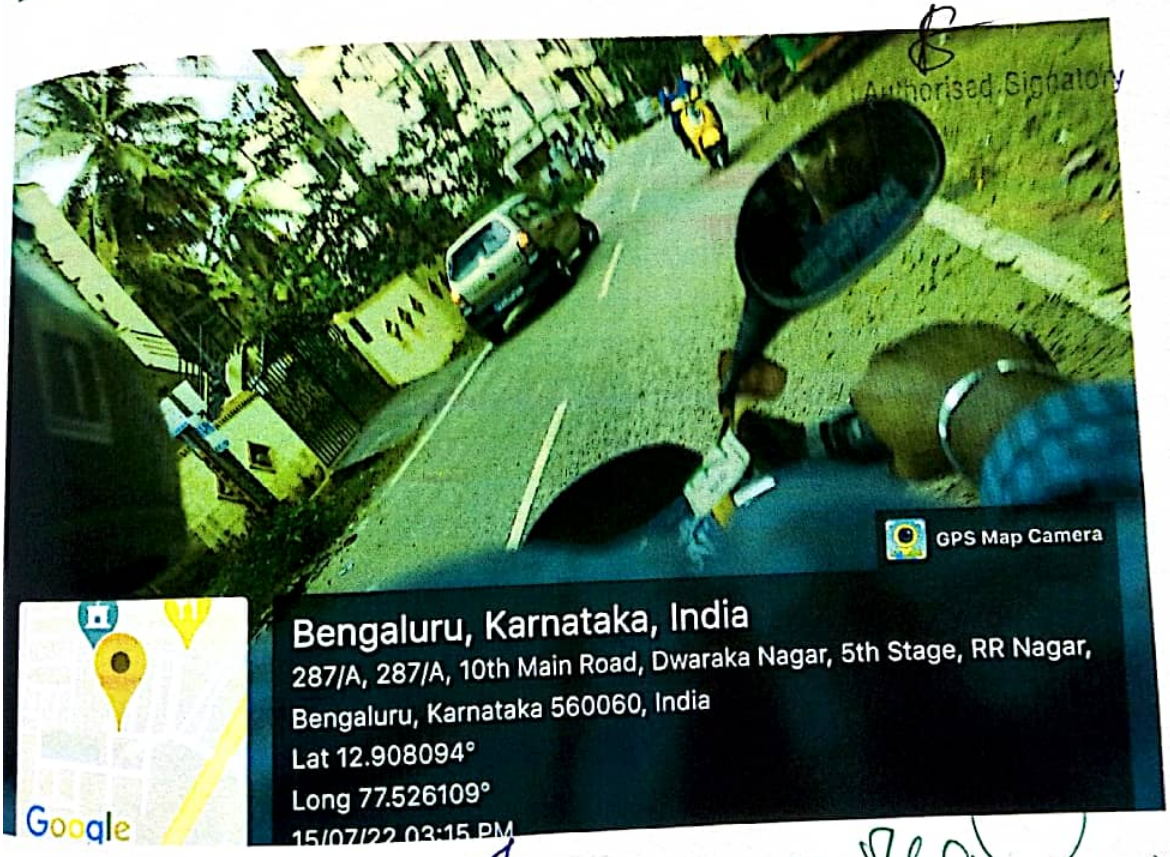

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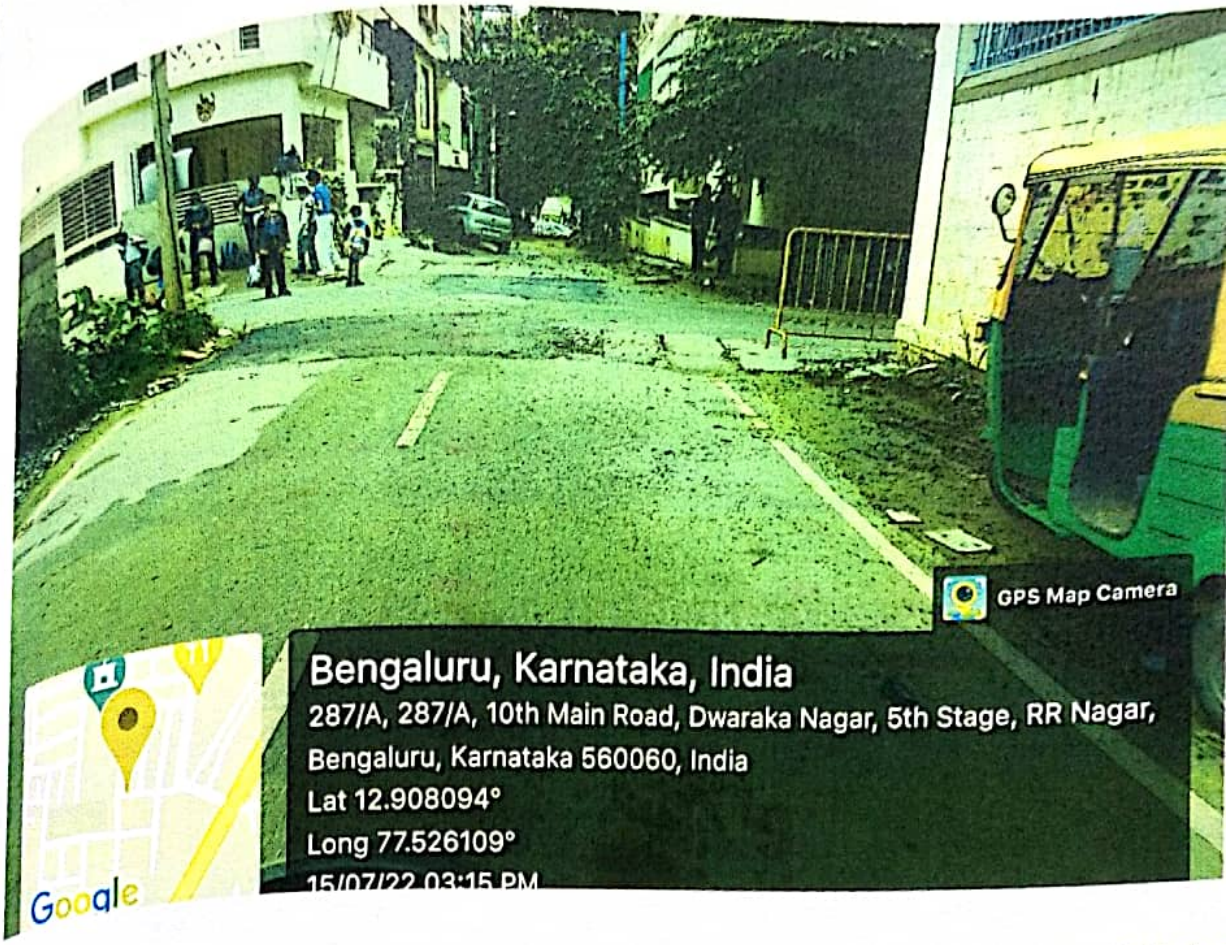

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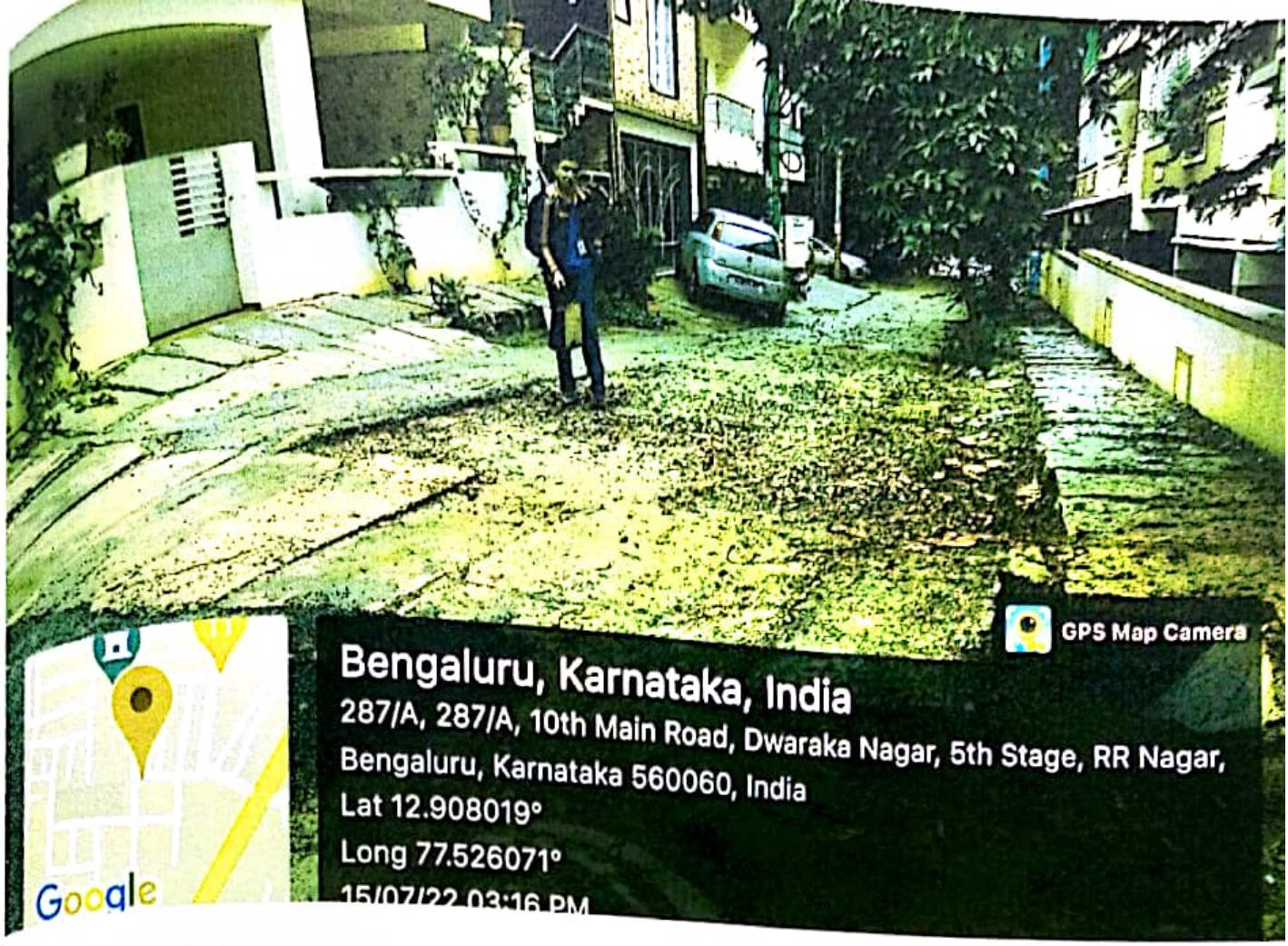

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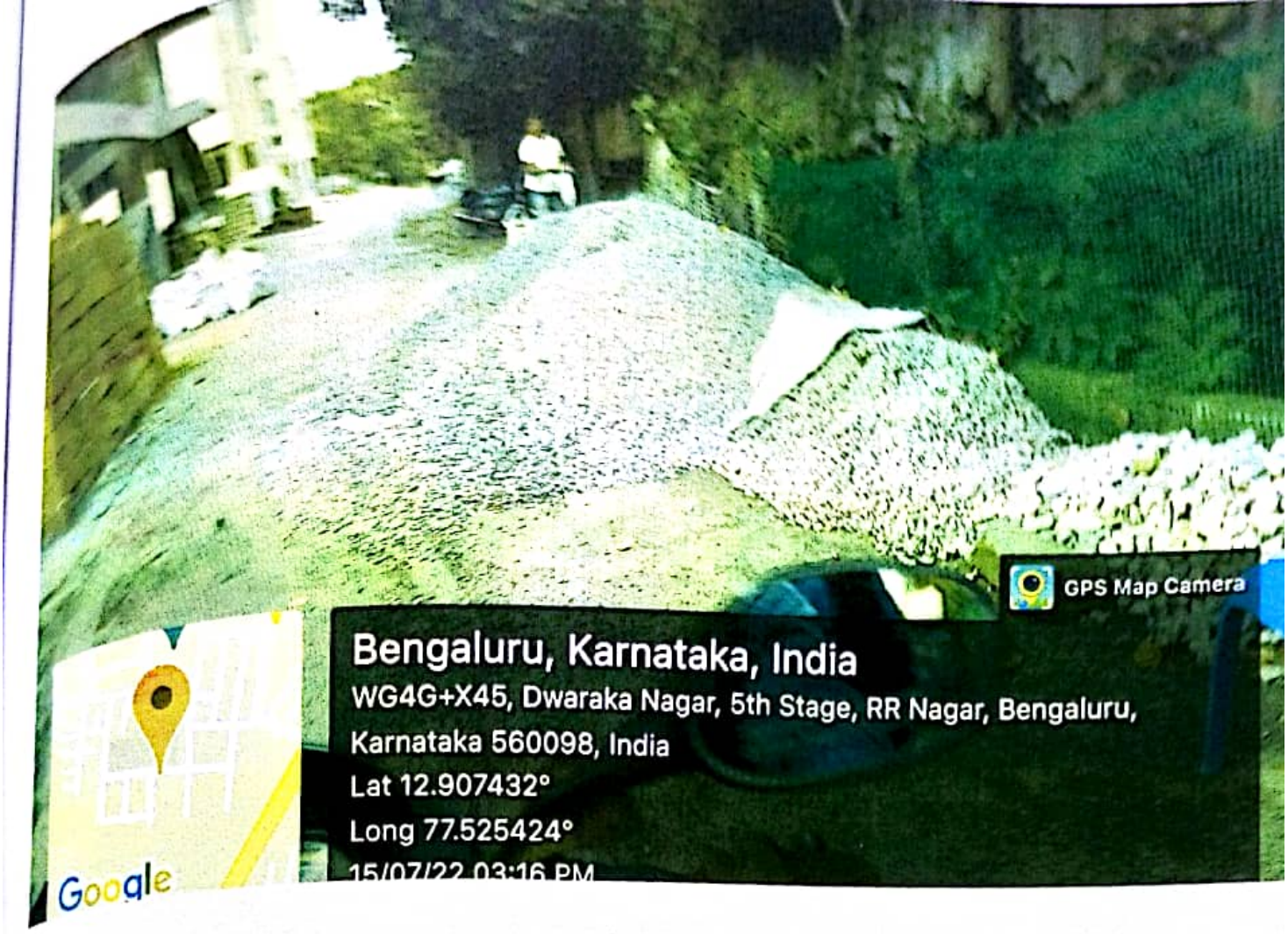

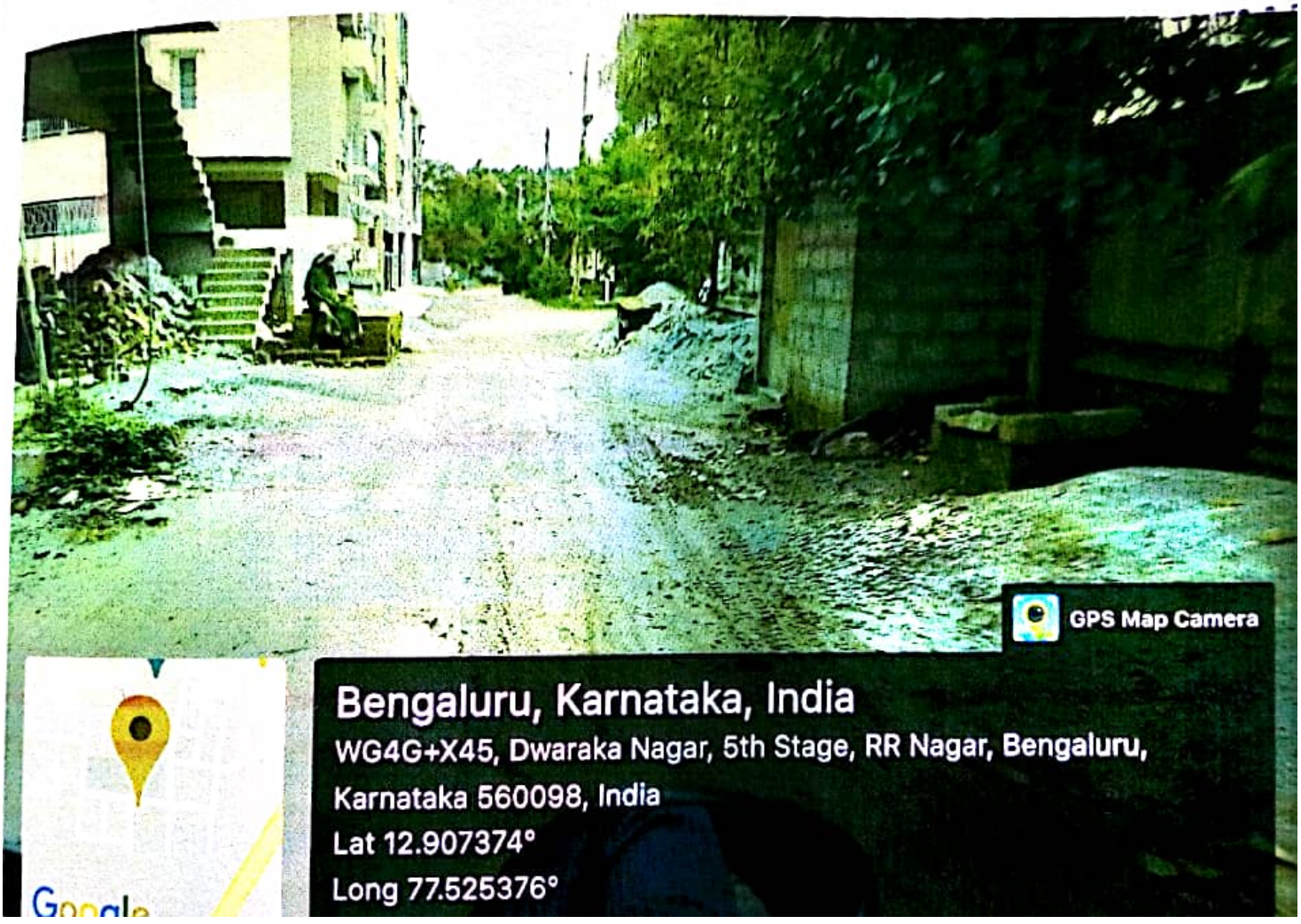

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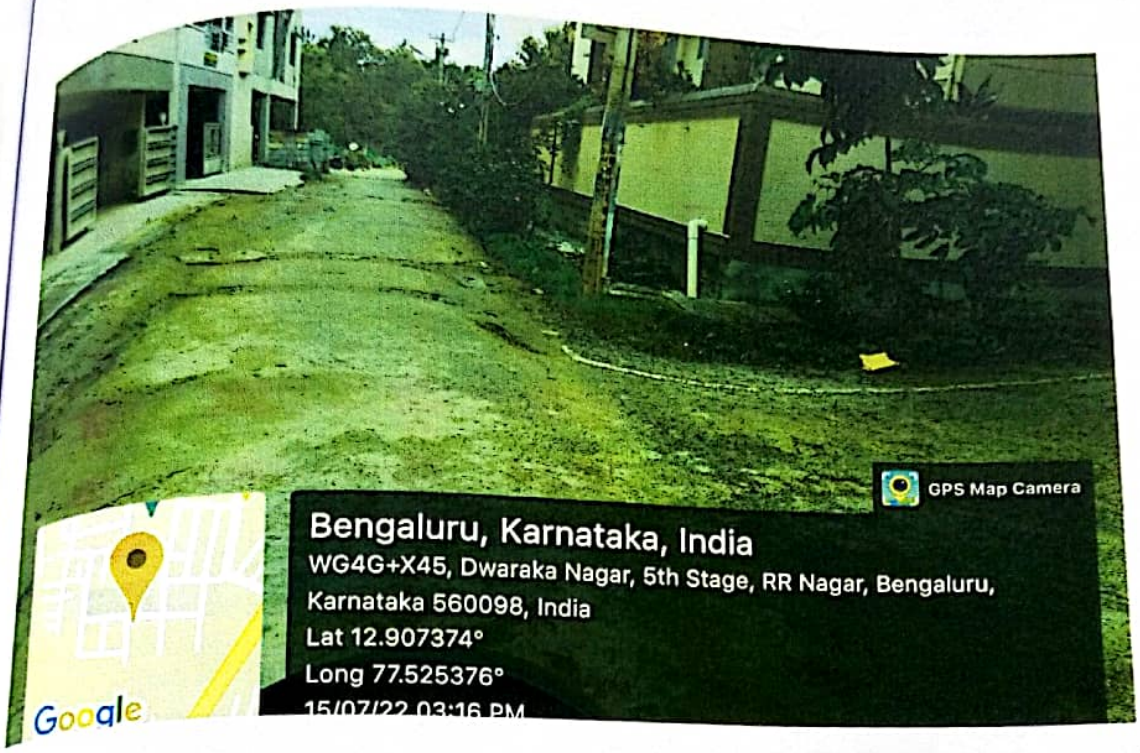

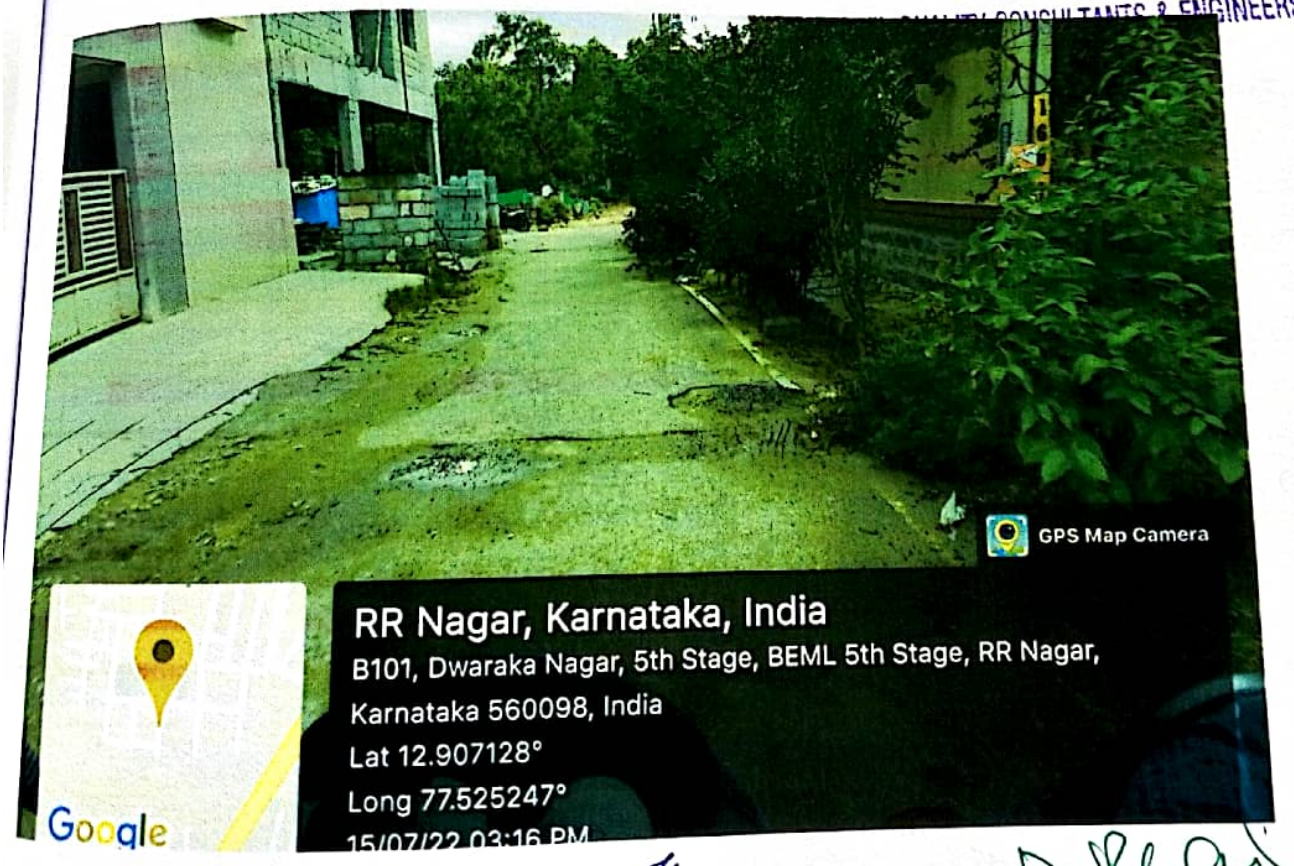

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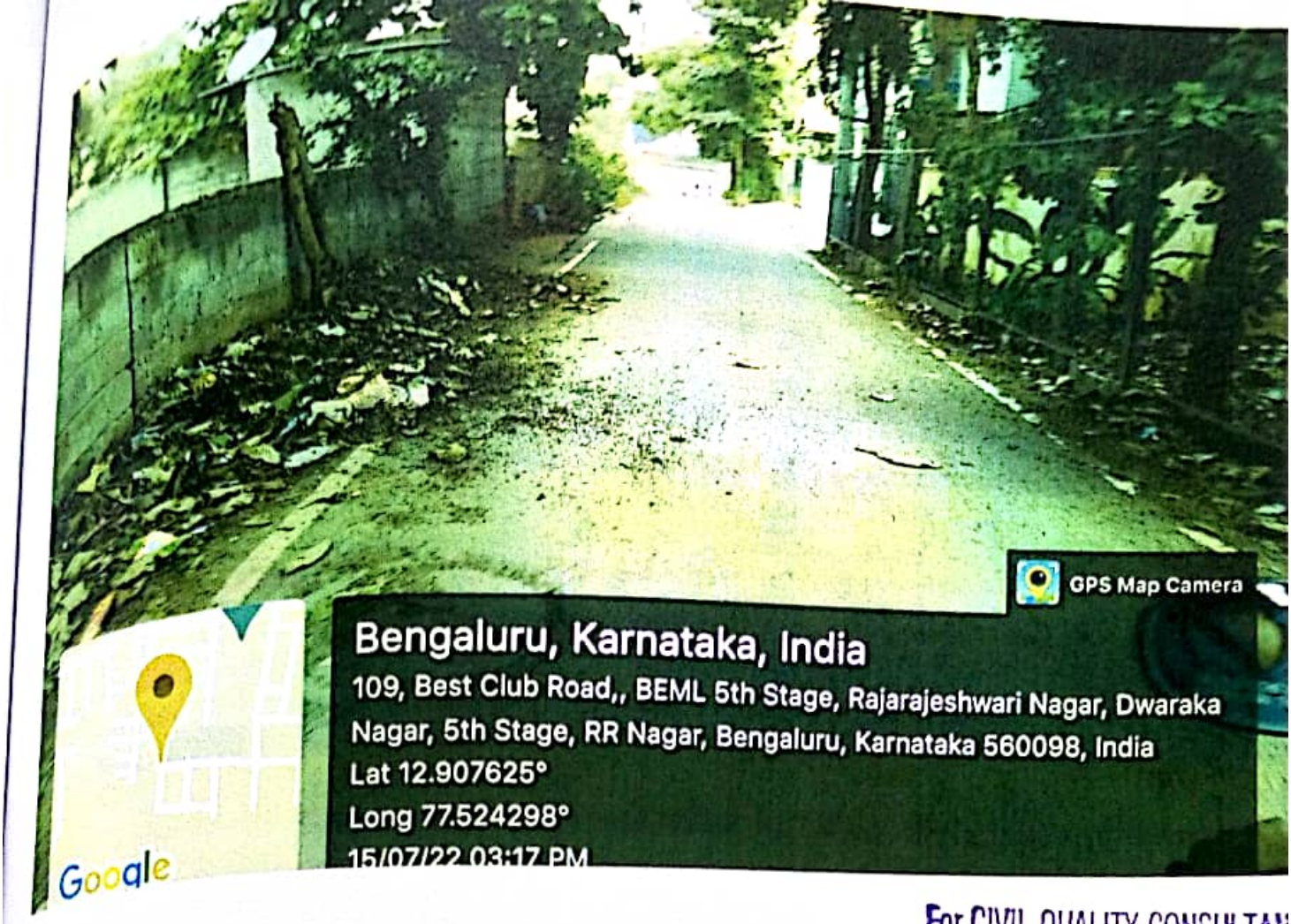

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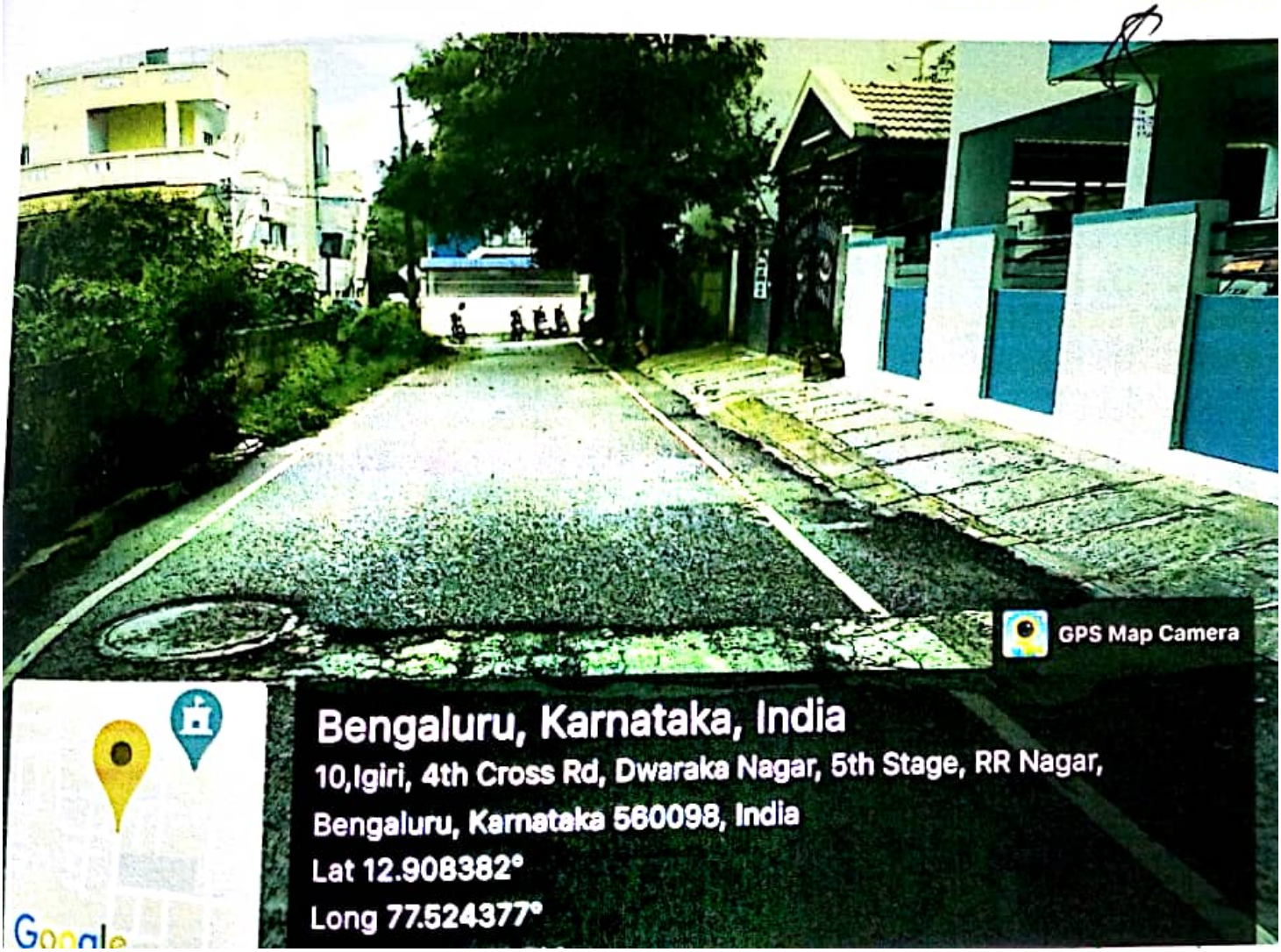

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ESTIMATE(36) :

NAME OF WORK:- IMPROVEMENTS OF CC ROADS & DRAINS IN BEML LAYOUT 10TH STAGE AND SURROUNDING AREAS IN RAJARAJESHWARI NAGARA WARD NO 160

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MAHANAGARA PALIKE

Name of Work: Improvements to CC Roads & Drains in BEML layout 10th Stage and surrounding areas in Rajarajeshwari nagara Ward no 160

Est .Cost Rs. 150.00 Lakhs

Job no:	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	Removing and Refixing cover slabs of drains and pointing in C.M(1:2)								
		Sqm							
	For Cover Slabs								
	Drink & Dine Road(W1227,W0942)		2	100.00	0.90		180.00		
	OPP to Sri Anjaneya Road		2	18.00	0.90		32.40		
	Post Office Road(4th Main Road)(W0952)		2	52.88	0.90		95.18		
	4th main road(Kalparuksha Home road)(W0952)		2	102.80	0.90		185.04		
	1st cross Road(panasonic road)(W1223)		2	56.00	0.90		100.80		
	2nd Cross Road(W1225)		2	88.00	0.90		158.40		
	3rd main road(omkara home road)(W0944)		2	72.00	0.90		129.60		
	Continuty of 3rd main Road(W0948)		2	12.00	0.90		21.60		
	7 Hills pardise road(W1014)		2	112.00	0.90		201.60		
							1104.62		
	For BS DRAIN SLABS								
	Drink & Dine Road(W1227,W0942)		2	250.00	1.35		675.00		
	OPP to Sri Anjaneya Road		2	45.00	1.35		121.50		
	Post Office Road(4th Main Road)(W0952)		2	132.20	1.35		356.94		
	4th main road(Kalparuksha Home road)(W0952)		2	257.00	1.35		693.90		
	1st cross Road(panasonic road)(W1223)		2	140.00	1.35		378.00		
	2nd Cross Road(W1225)		2	220.00	1.35		594.00		
	3rd main road(omkara home road)(W0944)		2	180.00	1.35		486.00		
	Continuty of 3rd main Road(W0948)		2	30.00	1.35		81.00		
							3386.34		
							846.59		
	25% missing Covering Slabs						**2539.76**		
							3644.38	**121.00**	**440969.86**
	Data Rate	121.00							
	Total	**121.00**							

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Tech no	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	Rate	150.00 Lakhs Amount
	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.In all kinds of soils Depth upto 1.5 m.Item No.1.4.1,Page No.A(5), Vol I CSR 21-22								
	BEML 10TH STAGE SURROUNDINGS	Cum							
	FOR DRAIN DESILT								
	Drink & Dine Road(W1227,W0942)		2	250.00	0.60	0.55	165.00		
	OPP to Sri Anjaneya Road		2	45.00	0.60	0.55	29.70		
	Post Office Road(4th Main Road)(W0952)		2	132.20	0.60	0.50	79.32		
	4th main road(Kalparuksha Home road)(W0952)		2	257.00	0.60	0.50	154.20		
	1st cross Road(panasonic road)(W1223)		2	140.00	0.60	0.55	92.40		
	2nd Cross Road(W1225)		2	220.00	0.60	0.50	132.00		
	3rd main road(omkara home road)(W0944)		2	180.00	0.60	0.50	108.00		
	Continuty of 3rd main Road(W0948)		2	30.00	0.60	0.60	21.60		
	7 Hills pardise road(W1014)		2	280.00	0.60	0.50	168.00		
	Gangothri Nilaya Road(W1016)		1	300.00	0.60	0.40	72.00		
	New Culverts								
			2	5.00	1.20	1.20	14.40		
							1036.62	**363.56**	**376873.57**
	Basic Rate	186.00							
	Loading & unLoading	118.00							
	Add for lead for earth (1.28 Tonne / Cum) 16km	40.96							
	Area Weightage @ 10%	18.60							
	Total	**363.56**							
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately).Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates.**Item No.2.1.3,Page No.15, Vol I CSR 21-22**								
		Cum							
	New Culverts		2	5.00	1.20	0.15	1.80		

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Description of Items	Unit	No	L (M)	B (M)	D (M)	Est.Cost Rs. Qty	150.00 Rate	Lakhs Amount
Basic Rate	5752.00							
Area Weightage @ 10%	575.20							
Total	**6327.20**					**1.80**	**6327.20**	**11388.96**

Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery curingandallother.appurtenances required to complete the work as per technical specifications. The cost of steel reinforcement & formwork to be paid separately).M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates.**Item No.2.4.2,Page No.17, Vol I CSR 21-22**

	Cum							
New Culverts								
New Culverts		2	5.00	1.20	0.20	2.40		
		4	5.00	0.23	0.60	2.76		
Basic Rate	6256.00							
Formwork (5%)	312.80							
Sub Total	6568.80					**5.16**	**7225.68**	**37284.51**
Area Weightage @ 10%	656.88							
Total	**7225.68**							

5 Supplying, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / Substructure / Superstructure complete as per Drawing and Technical Specifications. **Item No.9.3 ,Page No.71, Vol III SR 21-22**

ISSUE RATE DATE(7-04-2022)								
For RCC CULVERT	**Tonne**							
Total RCC Quantity =	kg							
For 1 CUM = 80	Kg					5.16		
	Kg					80.00		
	Tonne					412.80		
Basic Rate	94295.00					**0.41**	**103724.50**	**42817.47**
Area Weightage @ 10%	9,429.50							
Total	**103724.50**							

6 Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.Item No.6.33,Page No.17, Vol II SR 21-22

Flagging Course	Sqm							
Road side								
Drink & Dine Road(W1227,W0942)		2	150.00		0.20	60.00		
OPP to Sri Anjaneya Road		2	27.00		0.20	10.80		
Post Office Road(4th Main Road)(W0952)		2	79.32		0.20	31.73		
4th main road(Kalparuksha Home road)(W0952)		2	154.20		0.20	61.68		

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Job no:	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	150.00 Rate	Lakhs Amount
	1st cross Road(panasonic road)(W1223)		2	84.00		0.20	33.60		
	2nd Cross Road(W1225)		2	132.00		0.20	52.80		
	3rd main road(omkara home road)(W0944)		2	108.00		0.20	43.20		
	Continuty of 3rd main Road(W0948)		2	18.00		0.20	7.20		
	7 Hills pardise road(W1014)		2	168.00		0.20	67.20		
	Gangothri Nilaya Road(W1016)		1	180.00		0.20	36.00		
	OFF SIDE								
	Drink & Dine Road(W1227,W0942)		2	150.00		0.20	60.00		
	OPP to Sri Anjaneya Road		2	27.00		0.20	10.80		
	Post Office Road(4th Main Road)(W0952)		2	79.32		0.20	31.73		
	4th main road(Kalparuksha Home road)(W0952)		2	154.20		0.20	61.68		
	1st cross Road(panasonic road)(W1223)		2	84.00		0.20	33.60		
	2nd Cross Road(W1225)		2	132.00		0.20	52.80		
	3rd main road(omkara home road)(W0944)		2	108.00		0.20	43.20		
	Continuty of 3rd main Road(W0948)		2	18.00		0.20	7.20		
	7 Hills pardise road(W1014)		2	168.00		0.20	67.20		
	Gangothri Nilaya Road(W1016)		1	180.00		0.20	36.00		
	Basic Rate	1067.00					808.42	1173.70	948837.86
	Area Weightage @ 10%	106.70							
	Total	**1173.70**							

7 Providing Flush/ Ruled pointing: Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge.**Item No.8.19.1,Page No.44, Vol II SR 21-22**

Flagging Course	Sqm							
Drink & Dine Road(W1227,W0942)		4	150.00		0.20	120.00		
OPP to Sri Anjaneya Road		4	27.00		0.20	21.60		
Post Office Road(4th Main Road)(W0952)		4	79.32		0.20	63.46		
4th main road(Kalparuksha Home road)(W0952)		4	154.20		0.20	123.36		
1st cross Road(panasonic road)(W1223)		4	84.00		0.20	67.20		
2nd Cross Road(W1225)		4	132.00		0.20	105.60		
3rd main road(omkara home road)(W0944)		4	108.00		0.20	86.40		

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Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	150.00 Rate	Lakhs Amount
Continuty of 3rd main Road(W0948)		4	18.00		0.20	14.40		
Hills pardise road(W1014)		4	168.00		0.20	134.40		
Gangothri Nilaya Road(W1016)		2	180.00		0.20	72.00		
Basic Rate	200.00					808.42	220.00	177851.52
Area Weightage @ 10%	20.00							
Total	220.00							

Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately).Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate.**Item No.2.1.4,Page No.15, Vol I SR 21-22**

Copping on Flagging Course	Cum							
Drink & Dine Road(W1227,W0942)		4	150.00	0.15	0.10	9.00		
OPP to Sri Anjaneya Road		4	27.00	0.15	0.10	1.62		
Post Office Road(4th Main Road)(W0952)		4	79.32	0.15	0.10	4.76		
4th main road(Kalparuksha Home road)(W0952)		4	154.20	0.15	0.10	9.25		
1st cross Road(panasonic road)(W1223)		4	84.00	0.15	0.10	5.04		
2nd Cross Road(W1225)		4	132.00	0.15	0.10	7.92		
3rd main road(omkara home road)(W0944)		4	108.00	0.15	0.10	6.48		
Continuty of 3rd main Road(W0948)		4	18.00	0.15	0.10	1.08		
Hills pardise road(W1014)		4	168.00	0.15	0.10	10.08		
angothri Nilaya Road(W1016)		2	180.00	0.15	0.10	5.40		
OR KERB BED								
rink & Dine Road(W1227,W0942)		2	170.00	0.15	0.05	2.55		
PP to Sri Anjaneya Road		2	31.50	0.15	0.05	0.47		
st Office Road(4th Main ad)(W0952)		2	92.54	0.15	0.05	1.39		
h main road(Kalparuksha Home ad)(W0952)		2	179.90	0.15	0.05	2.70		
t cross Road(panasonic ad)(W1223)		2	98.00	0.15	0.05	1.47		
d Cross Road(W1225)		2	150.00	0.15	0.05	2.25		
d main road(omkara home ad)(W0944)		2	126.00	0.15	0.05	1.89		

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Description of Items	Unit	No	L (M)	B (M)	D (M)	Est. Cost Rs.	150.00	Lakhs
						Qty	Rate	Amount
Continuty of 3rd main Road(W0948)		2	21.00	0.15	0.05	0.32		
7 Hills pardise road(W1014)		2	196.00	0.15	0.05	2.94		
Gangothri Nilaya Road(W1016)		1	210.00	0.15	0.05	1.58		
Basic Rate	5926.00							
Area Weightage @ 10%	592.60							
Total	**6518.60**					**78.18**	**6518.60**	**509626.10**

10 Providing **granite slabs** of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.- do - **7.5 cms thick** (P-27/5.31.1) PWD SR 2018-19

25% missing BS Drain Slabs	Sqm							
						846.59		
Basic Rate	700.00							
Area Weightage @ 6%	42.00					**846.59**	**742.00**	**628166.07**
Total	**742.00**							

10 Providing B S Slabs of selected quality roughly dressed having a size of 10cms thick and fixed in cement mortar (1:6) including fixing curing etc., complete.as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)

	Sqm							
Drink & Dine Road(W1227,W0942)		2	150.00	0.90		270.00		
OPP to Sri Anjaneya Road		2	27.00	0.90		48.60		
Post Office Road(4th Main Road)(W0952)		2	79.32	0.90		142.78		
4th main road(Kalparuksha Home road)(W0952)		2	154.20	0.90		277.56		
1st cross Road(panasonic road)(W1223)		2	84.00	0.90		151.20		
2nd Cross Road(W1225)		2	132.00	0.90		237.60		
3rd main road(omkara home road)(W0944)		2	108.00	0.90		194.40		
Continuty of 3rd main Road(W0948)		2	18.00	0.90		32.40		
7 Hills pardise road(W1014)		2	168.00	0.90		302.40		
Gangothri Nilaya Road(W1016)		1	300.00	0.90		270.00		
						1926.94	**837.00**	**1612845.43**
Data Rate	837.00							
Total	**837.00**							

11 Providing one line dressing to granite stone slab / granite stone masonry as per specifications. as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)

	Sqm							
New Slab QTY						1926.94		
FOR R&R QTY						1104.62		
						3031.56	**242.00**	**733637.52**
Data Rate	242.00							
Total	**242.00**							

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Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	150.00 Rate	Lakhs Amount
Providing Machine Cutting edges to B S Slabs 2.5cms.wide as per Specifications.(Only Chamfered length Shall be provided inclusive of all taxes Complete..as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)	m							
			3568.00	3.00		10704.00		
Data Rate	390.00					10704.00	390.00	4174560.00
Total	390.00							
Providing & laying **precast drain cover slab of 230 mm** thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.60 x 0.23) **(Approved Data rate)**	Sqm							
New Culverts		2	5.00	1.20		12.00		
Data Rate	5037.00					12.00	5037.00	60444.00
Total	**5037.00**							
Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165mm respectively,400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork,curing including cost of materials,labour charges of machinery,loading and unloading,lead and lift transportation etc., complete as directed by the Engineer in charge of the work (Excluding GST and Area Leading Charges)	No's							
Dhanak & Dine Road(W1227,W0942)		2	170.00			340.00		
OPP to Sri Anjaneya Road		2	31.50			63.00		
Post Office Road(4th Main Road)(W0952)		2	92.54			185.08		
4th main road(Kalparuksha Home road)(W0952)		2	179.90			359.80		
1st cross Road(panasonic road)(W1223)		2	98.00			196.00		
2nd Cross Road(W1225)		2	150.00			300.00		
3rd main road(omkara home road)(W0944)		2	126.00			252.00		
Continuty of 3rd main Road(W0948)		2	21.00			42.00		
7 Hills pardise road(W1014)		2	196.00			392.00		
Gangothri Nilaya Road(W1016)		1	210.00			210.00		
						2339.88		
ength/.45						**5199.73**	**507.00**	**2636264.80**
Data Rate	507.00							
Total	**507.00**							
nting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete								
aces.Painting Two Coats on New Concrete Surfaces.**Item No.8.1,Page No.56, Vol III SR 21-22**								
	Sqm							
		1	2339.88		0.30	701.96		
						701.96	**93.50**	**65633.63**
Basic Rate	85.00							
Area Weightage @ 10%	8.50							
Total	**93.50**							

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Sl No	Job no:- Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	150.00 Rate	Lakhs Amount
	Sub Total								12457201.31
	GST 18%								2242296.24
	Project Management Consultancy 1%								150000.00
	Detailed project report 1%								150000.00
	Miscellaneous								502.46
	Total								15000000.00

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary
2 The Estimate is prepared as per the PWD SR 2021-22 & PWD SR-2018-19,Issue Rate 07/04/2022
3 The Provision made in estimate are adequate and essential
4 This area comes under BBMP limits.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Consultants

Authorised Signatory

Asst Engineer
Ward No- 160
BBMP

Asst Executive Engineer
RR Nagar Sub Division
BBMP

Executive Engineer
RR Nagar Division
BBMP

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KEY MAP

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FOR CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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EXISTING PHOTOS

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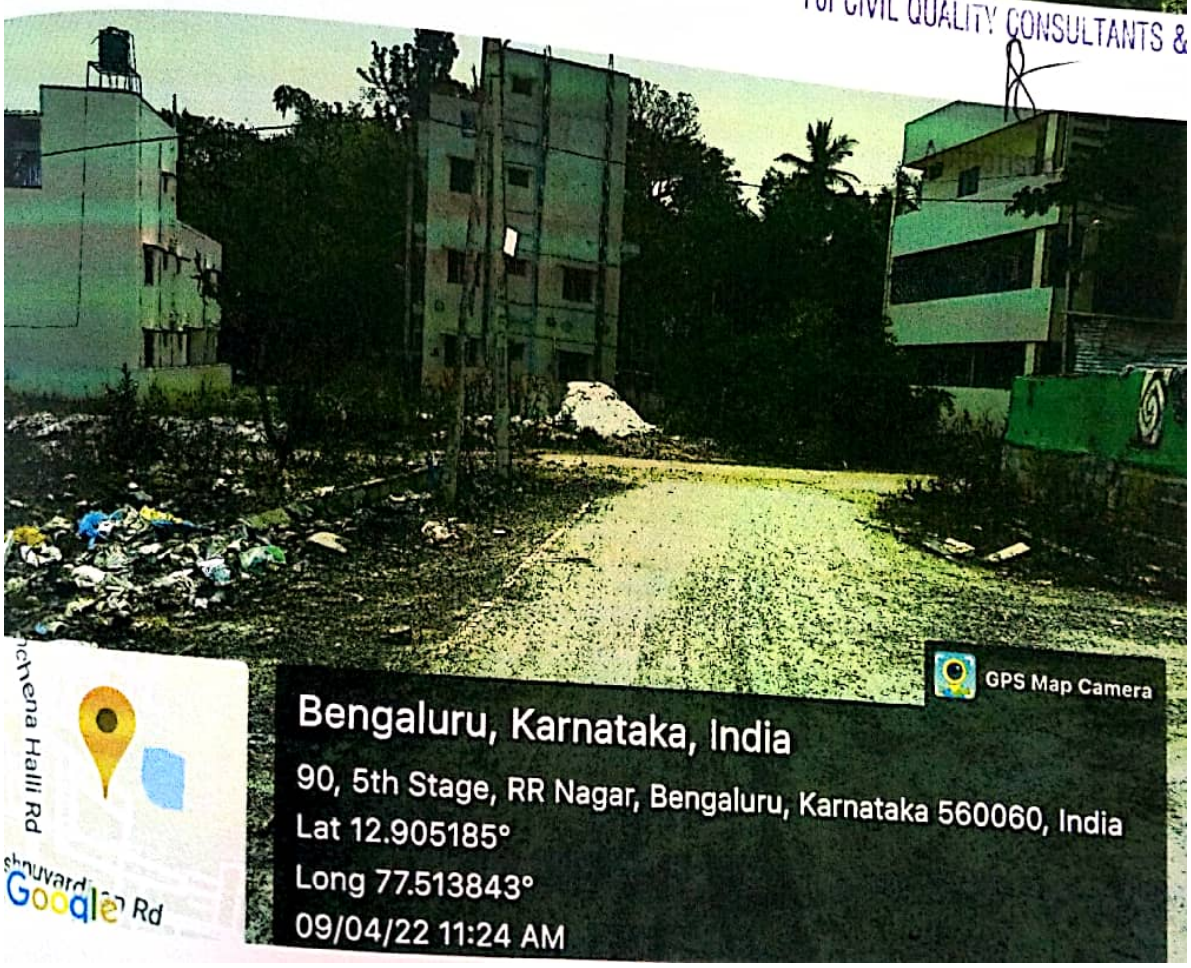
For CIVIL QUALITY CONSULTANTS &



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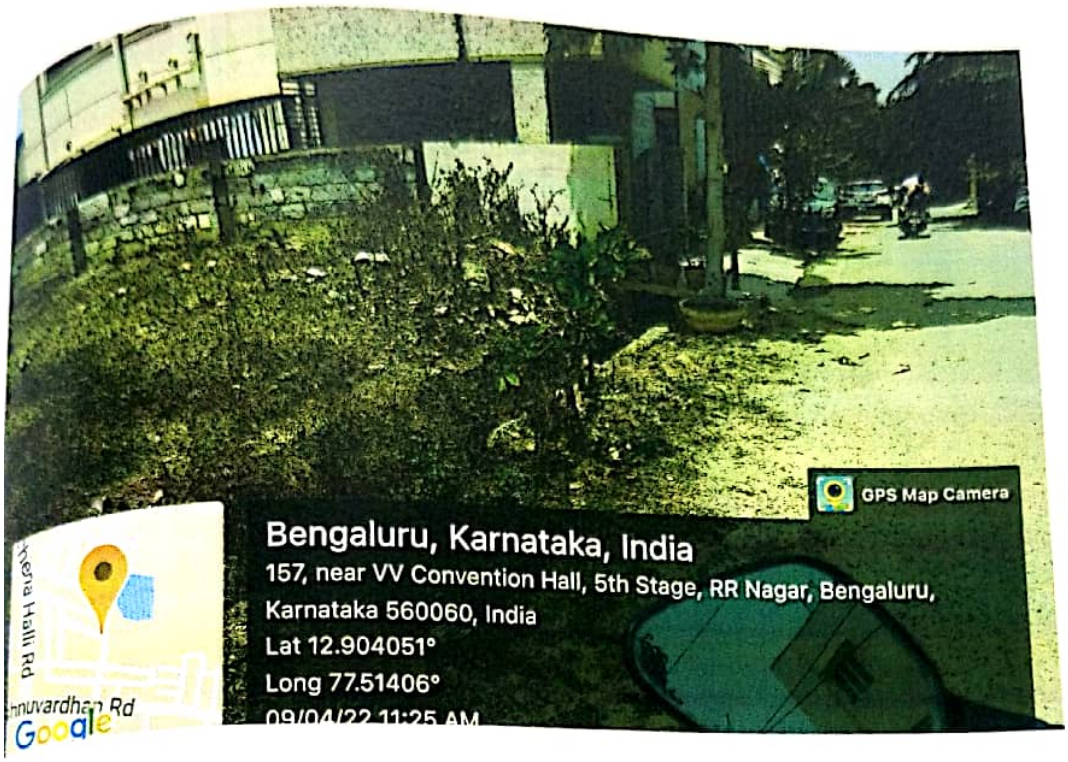
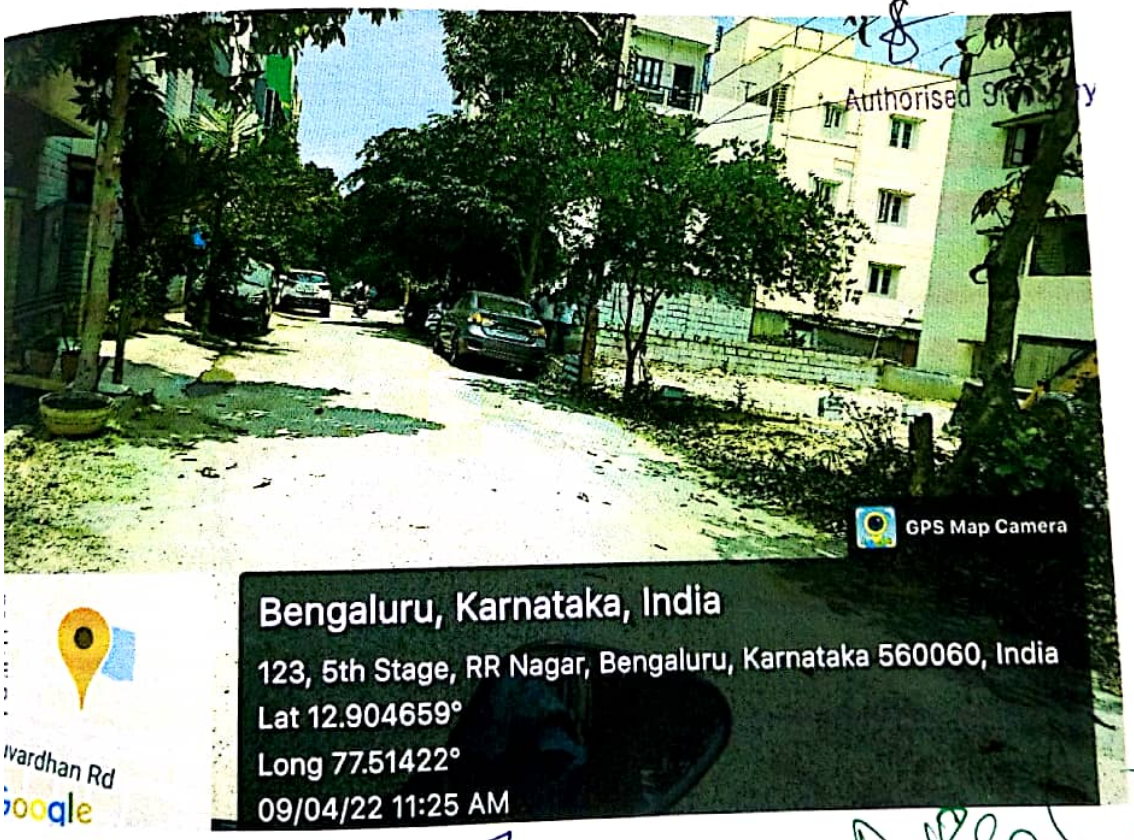


For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory



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For CIVIL QUALITY CONSULTANTS

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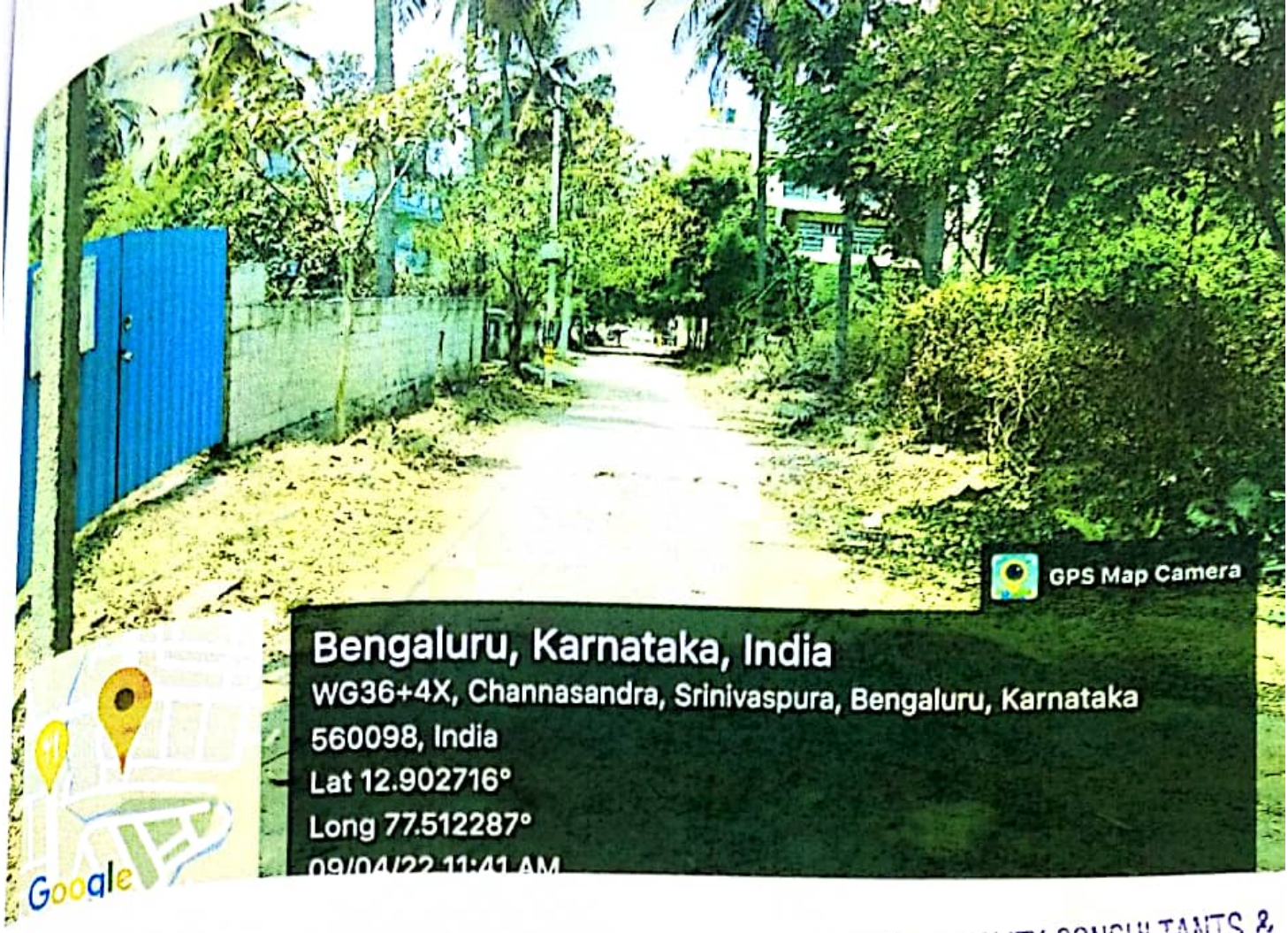

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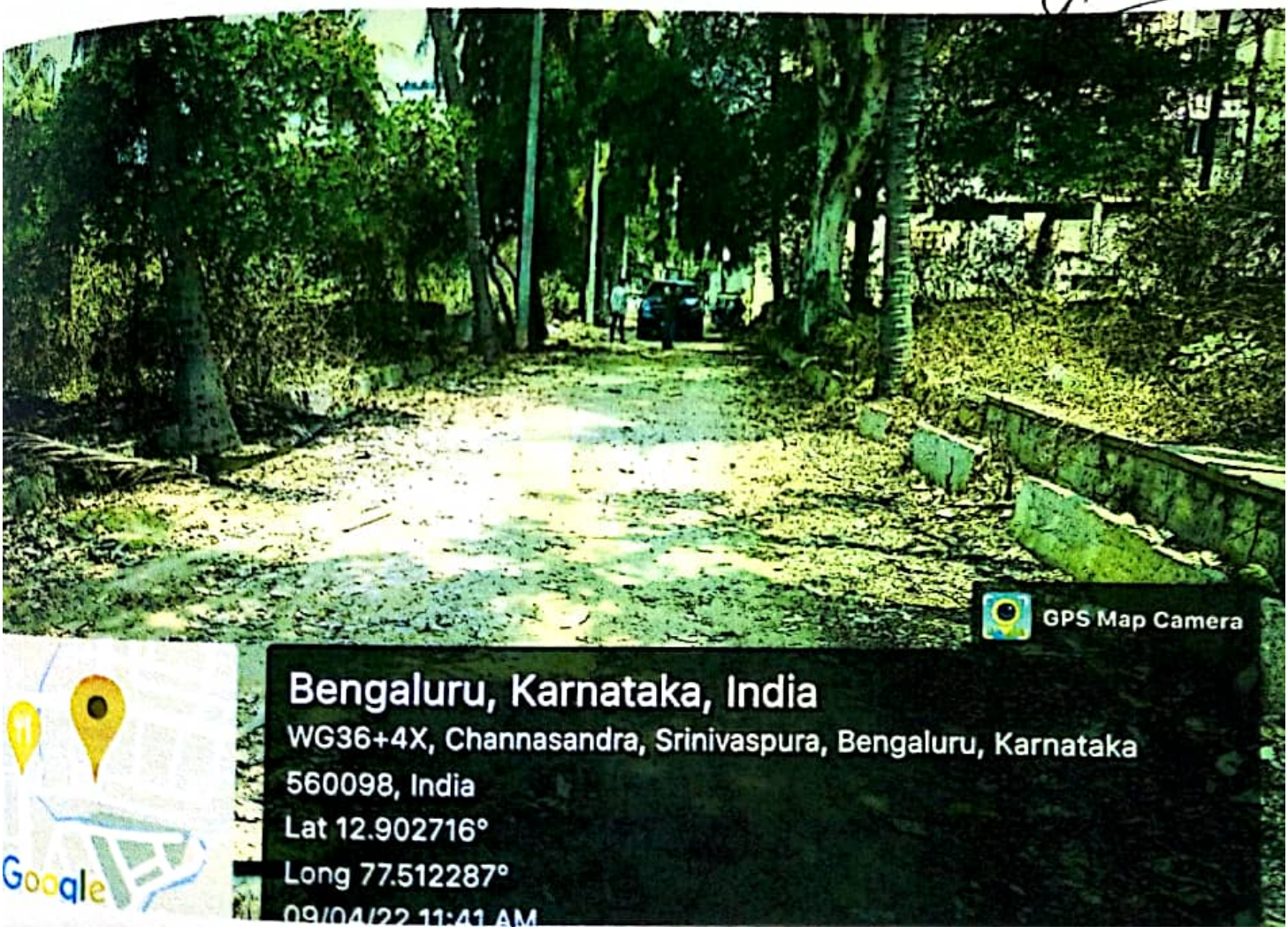

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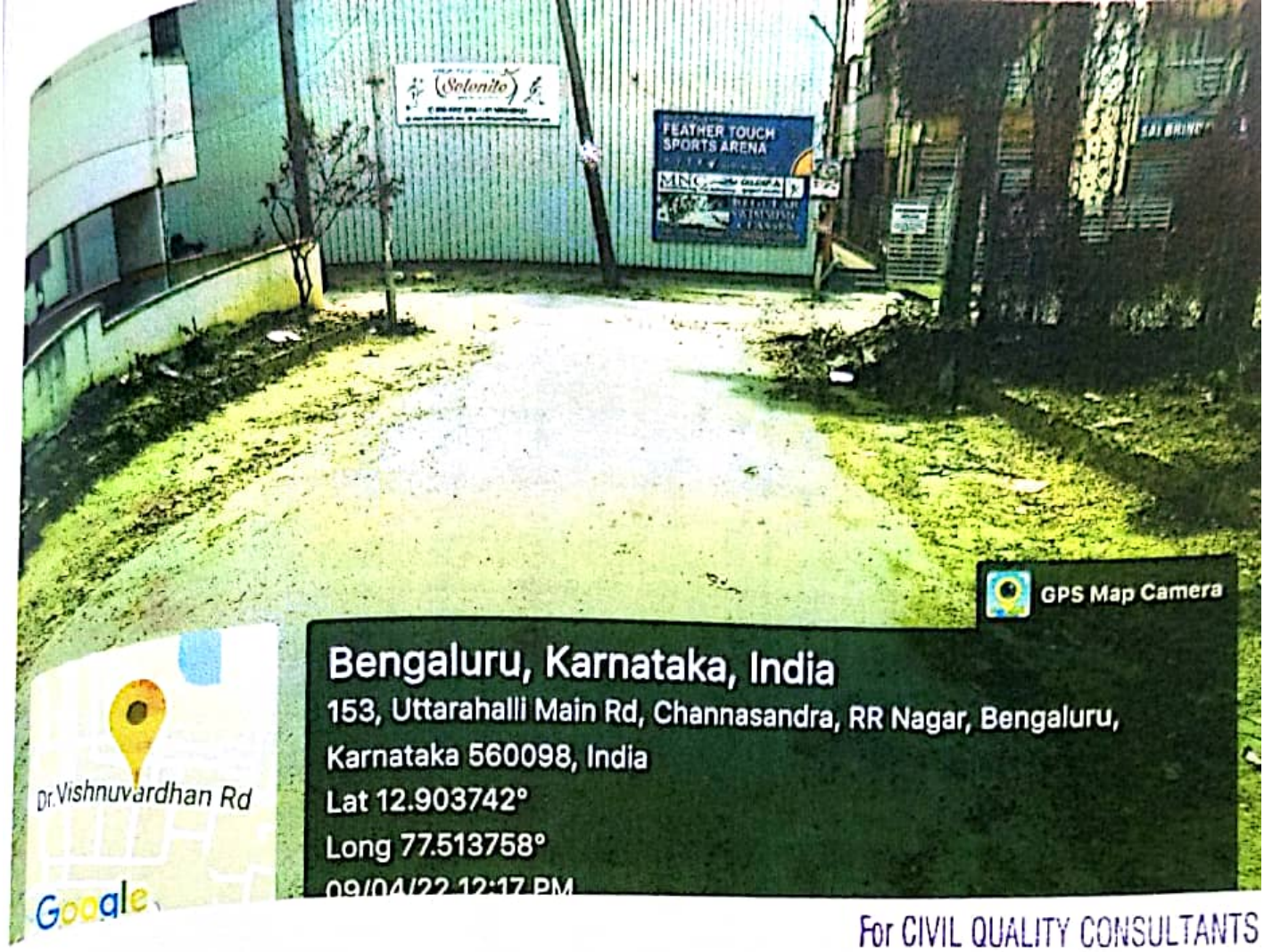

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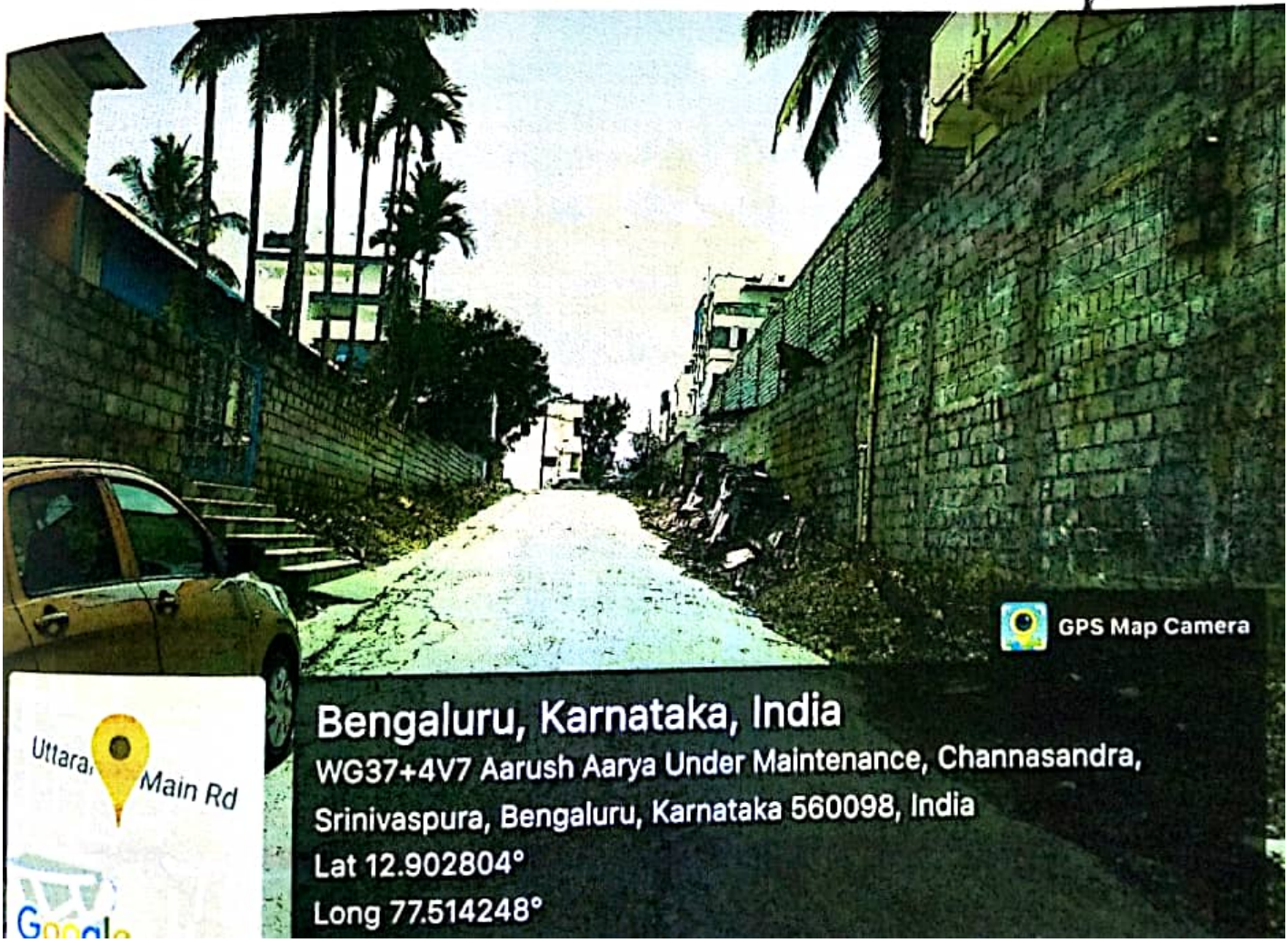

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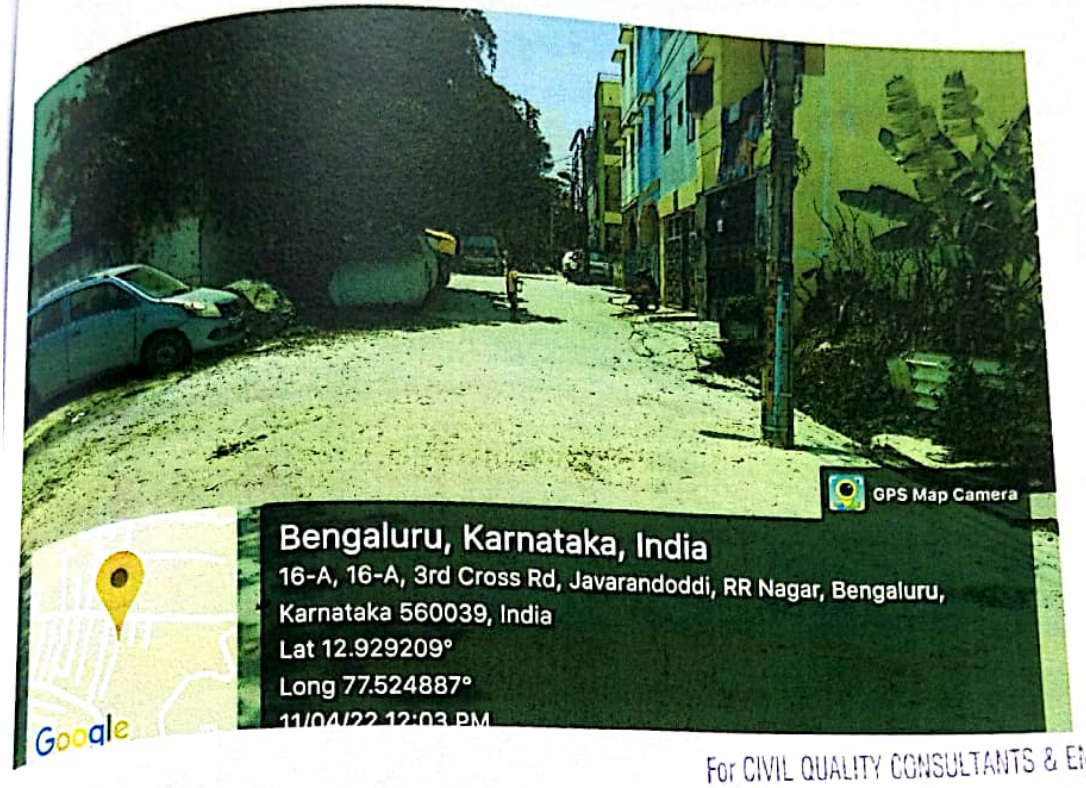

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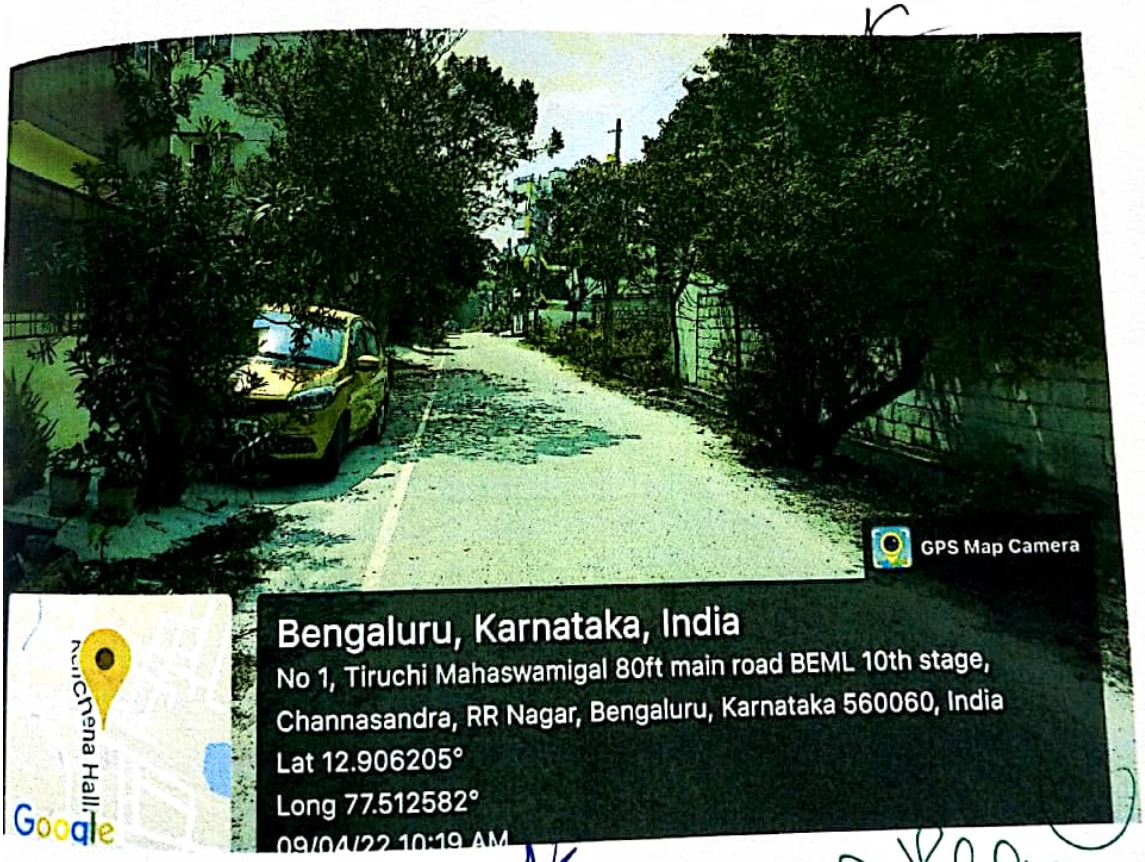

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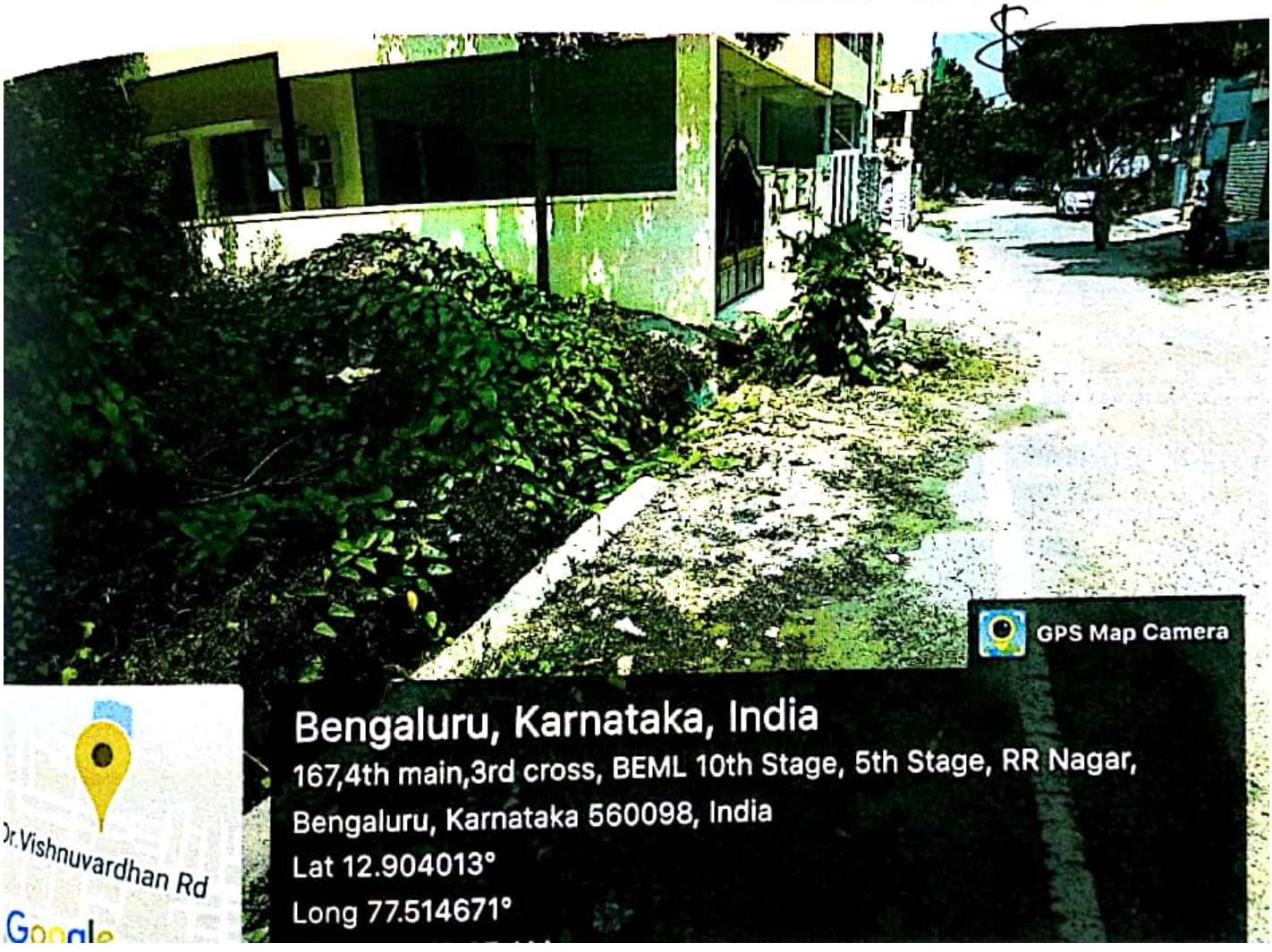

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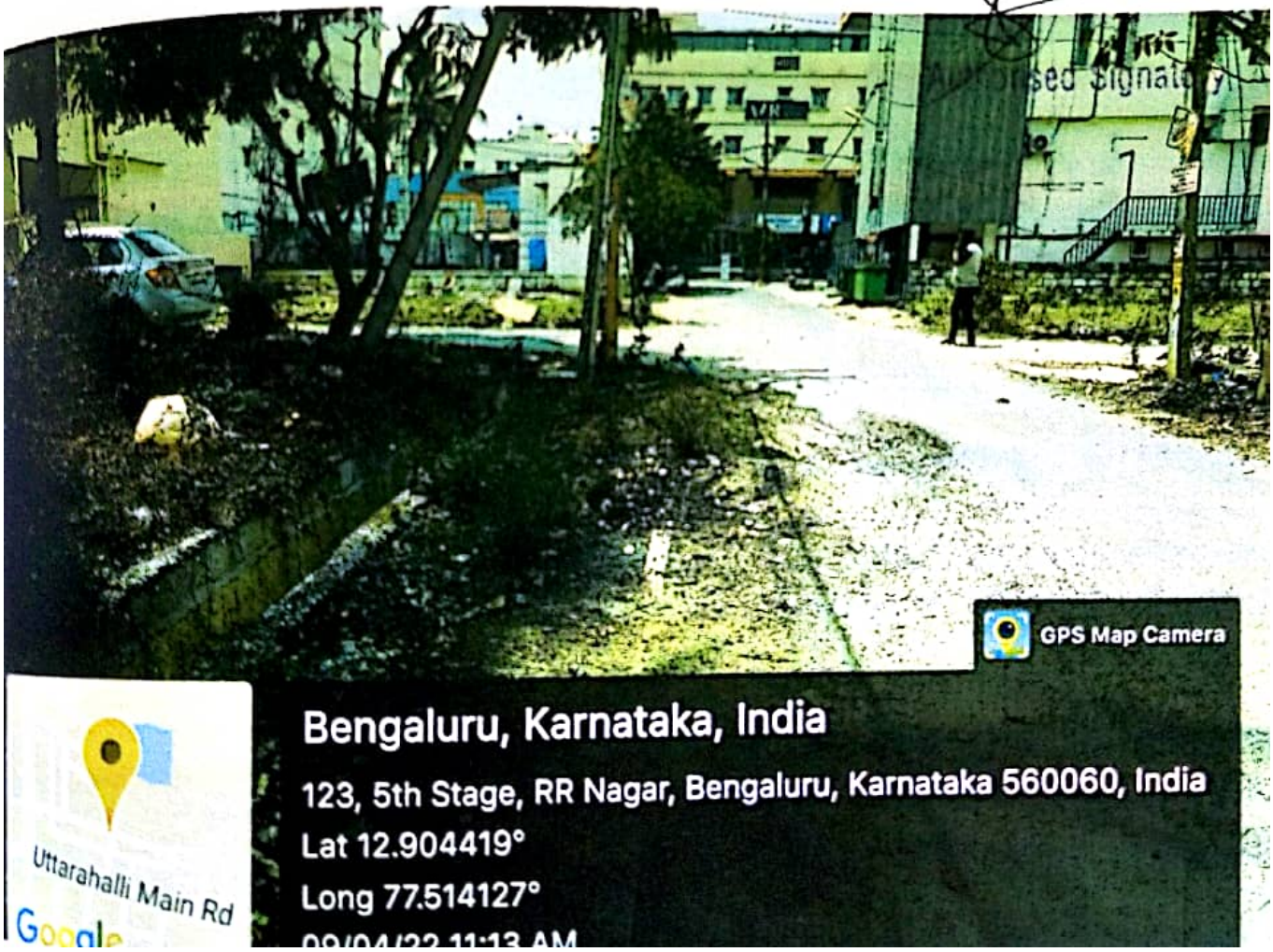

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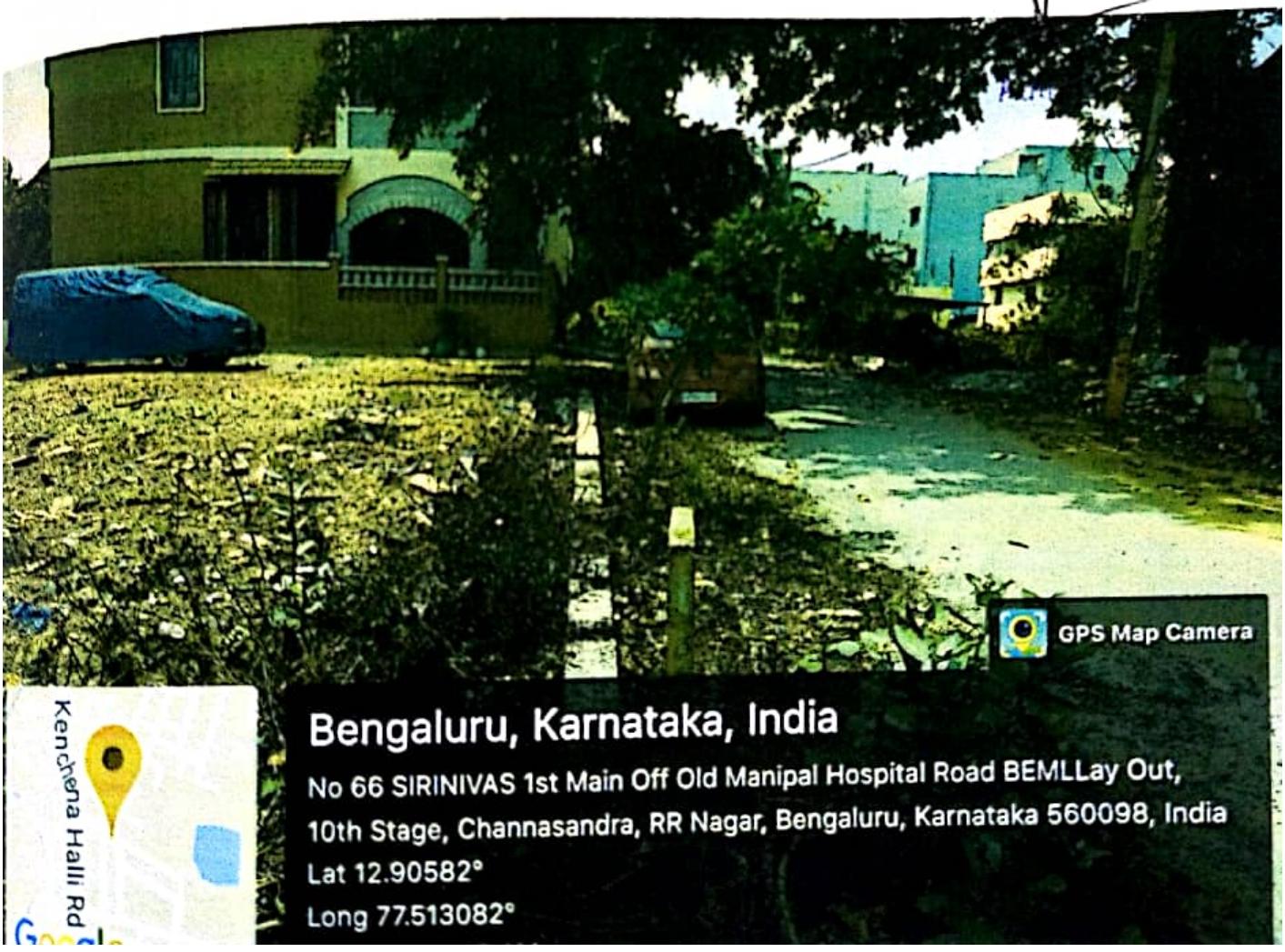
For CIVIL QUALITY CONSULTANTS



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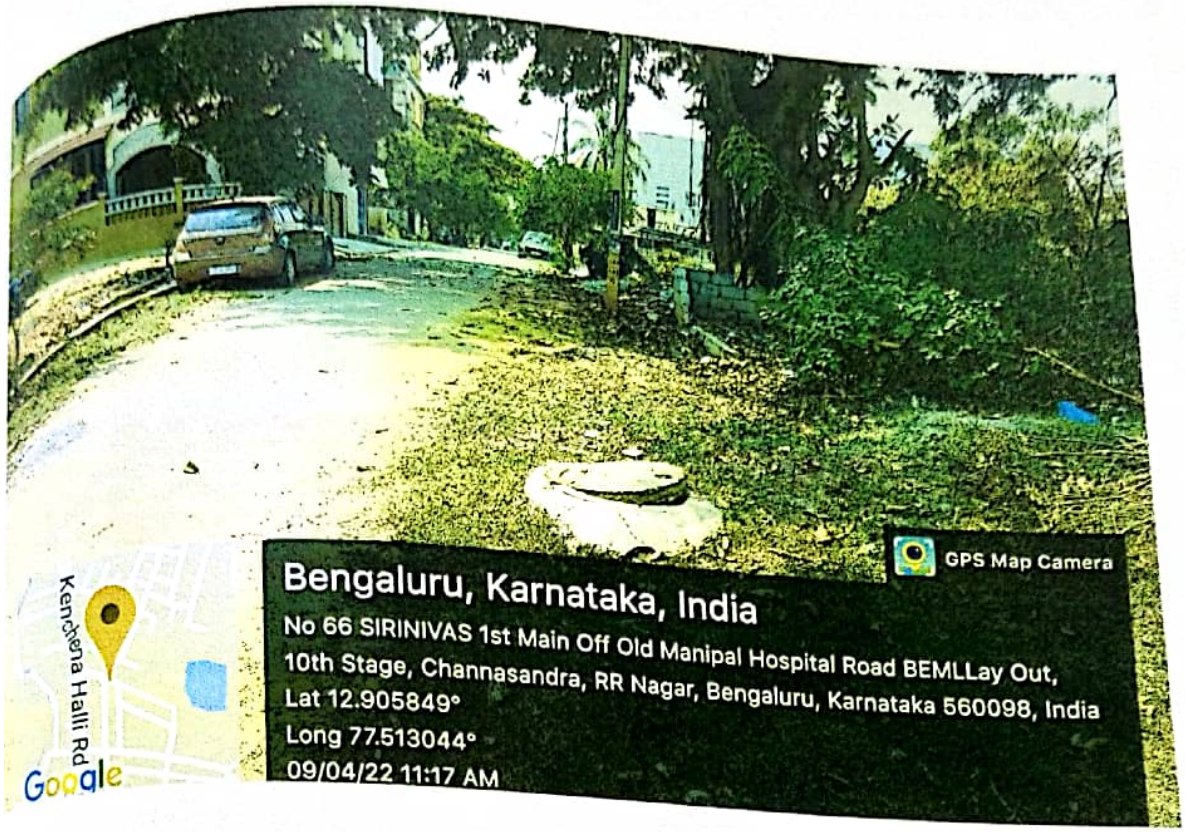
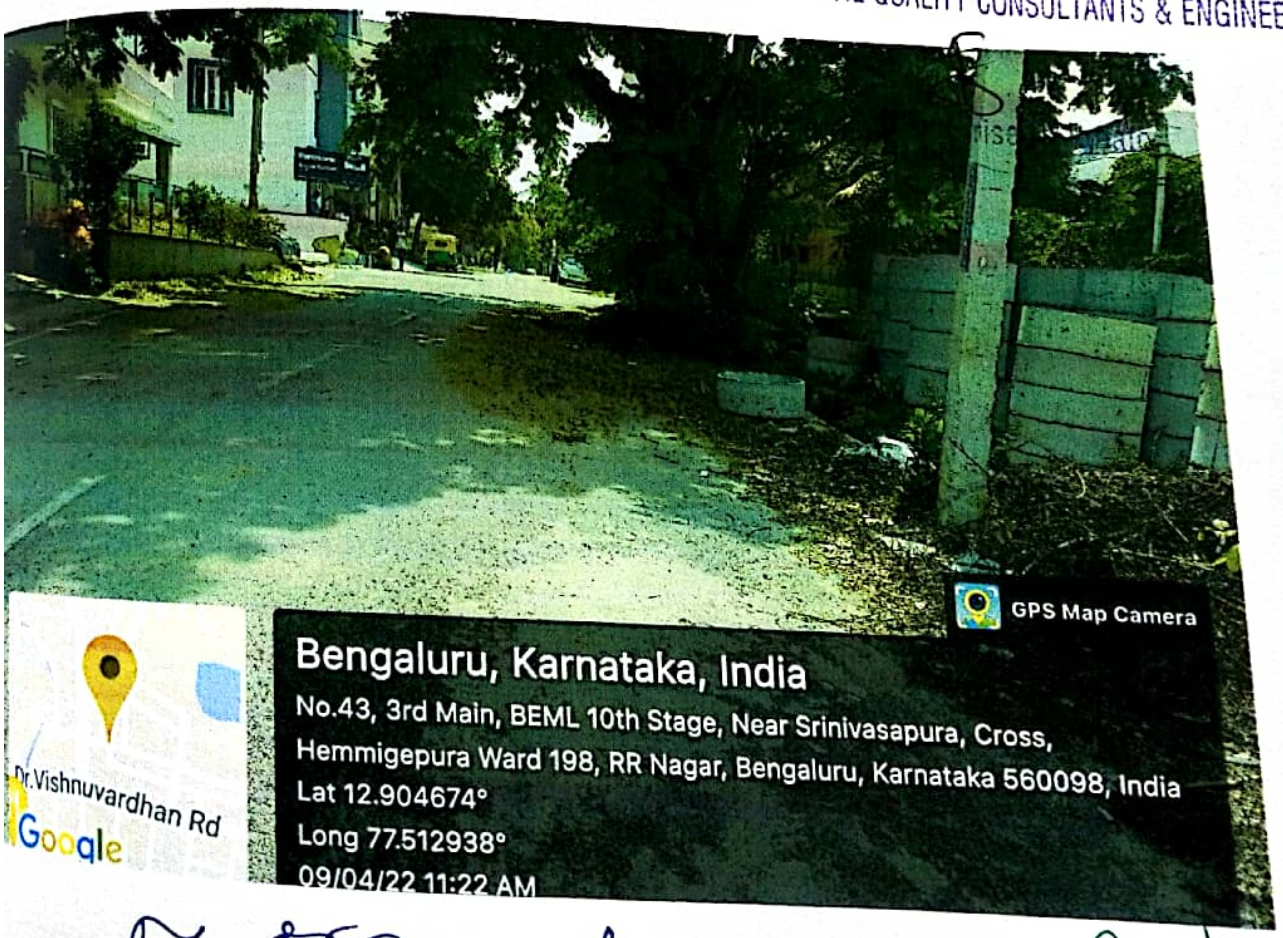


For CIVIL QUALITY CONSULTANTS & ENGINEERS



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ESTIMATE(37) :

NAME OF WORK: NAME OF WORK :-COMPREHENSIVE DEVELOPMENT OF ROADS & DRAINS IN DWARAKA WEST ,DWARAKA EAST,KRISHNA RESIDENCY,CHANNSANDRA COLONY,RNS BACK SIDE,AND SURROUNDING AREAS IN RAJARAJESHWARI NAGARA WARD NO 160

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NAME OF WORK :-Comprehensive Development of Roads & Drains in Dwaraka West ,Dwaraka East,Krishna Residency,Channsandra Colony,RNS back side,and surrounding areas in Rajarajeshwari nagara Ward no 160

BRUHAT BENGALURU MAHANAGARA PALIKE

Est.Cost Rs. 300.00 Lakhs

Job no	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	Removing and Resetting Stone Slabs of drains and pointing in C.M(1:2)								
	Vaibhavi Nilaya Road		2	102.90	0.90		185.22		
	17th Main		2	50.40	0.90		90.72		
	Om Sai Ram Nilaya		2	17.50	0.90		31.50		
	Samruddhi Nilaya Road		2	35.70	0.90		64.26		
	Khadhyota Nilay Rd		2	36.05	0.90		64.89		
	16th Main Road		2	70.00	0.90		126.00		
	16th Cross RD		2	60.90	0.90		109.62		
	Cross RD-3		2	14.70	0.90		26.46		
	Cross RD-4		1	21.00	0.90		18.90		
	Cross RD-5		2	24.50	0.90		44.10		
	Sri Veerabhadra Motors		2	84.00	0.90		151.20		
	Cross Rd-6		2	14.00	0.90		25.20		
	MuniBettadeshwara Swamy Trust		2	72.80	0.90		131.04		
	Nammoora Govt School Ground RD		2	59.50	0.90		107.10		
	Sri Lakshmi Venkateshwara Nilaya Rd		2	28.00	0.90		50.40		
							1226.61		
	FOR PCS SLABS								
	Shri veeranjaneya swamy temple Road(w1339)		1	56.00	0.90		50.40		
	Maruthi Electricals		2	28.00	0.90		50.40		
	Cross Rd-2		2	45.50	0.90		81.90		
	SLV Condiments		2	61.60	0.90		110.88		
	Shanimahatma Devasthana Road To End Of Road		2	110.00	0.90		198.00		
							491.58		
	30% missing Slabs						147.47		
							344.11		
	FOR BS DRAIN SLABS								
	DWARAKA EAST								
	Vaibhavi Nilaya Road		2	147.00	1.35		396.90		
	17th Main		2	72.00	1.35		194.40		
	Om Sai Ram Nilaya		2	25.00	1.35		67.50		
	Samruddhi Nilaya Road		2	51.00	1.35		137.70		
	Khadhyota Nilay Rd		2	51.50	1.35		139.05		

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Description of Items	Unit	No	L (M)	B (M)	D (M)	Est.Cost Rs.	300.00	Lakhs
						Qty	Rate	Amount
16th Main Road		2	100.00	1.35		270.00		
16th Cross RD		2	87.00	1.35		234.90		
25% missing BS Drain Slabs						1440.45		
						360.11		
						1080.34		
Data Rate	121.00					2651.05	121.00	320777.47
Total	**121.00**							

Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead Cement Concrete Grade M-15 & M-2, P.No 8 I.No2.8 Volume III SR 2021-22

	cum							
shri veeranjaneya swamy temple Road(w1339)		1	307	1.6	0.15	73.68		
Nammoora Govt School		1	108	1.8	0.15	29.16		
						102.84	971.3	99888.492
Basic Rate	883.00							
Area Weightage @ 10%	88.30							
Total	**971.3**							

Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.In all kinds of soils Depth upto 1.5 m.**Item No.1.4.1,Page No.A(5), Vol I CSR 21-22**

Desilting	Cum							
FOR DESILT								
shri veeranjaneya swamy temple Road(w1339)		1	80.00	0.60	0.50	24.00		
Vaibhavi Nilaya Road		2	147.00	0.60	0.50	88.20		
17th Main		2	72.00	0.60	0.55	47.52		
Om Sai Ram Nilaya		2	25.00	0.60	0.55	16.50		
Samruddhi Nilaya Road		2	51.00	0.60	0.55	33.66		
Khadhyota Nilay Rd		2	51.50	0.60	0.60	37.08		
16th Main Road		2	100.00	0.60	0.50	60.00		
16th Cross RD		2	87.00	0.60	0.50	52.20		
Maruthi Electricals		2	40.00	0.60	0.55	26.40		
Cross Rd-2		2	65.00	0.60	0.55	42.90		

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Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	300.00 Rate	Lakhs Amount
Cross RD-3		2	21.00	0.60	0.60	15.12		
Cross RD-4		1	30.00	0.60	0.60	10.80		
Cross RD-5		2	35.00	0.60	0.50	21.00		
Sri Veerabhadra Motors		2	120.00	0.60	0.50	72.00		
Cross Rd-6		2	20.00	0.60	0.55	13.20		
Muni Settadeshwara Swamy Trust		2	104.00	0.60	0.55	68.64		
SLV Condiments		2	88.00	0.60	0.55	58.08		
Nammoora Govt School Ground		2	85.00	0.60	0.50	51.00		
RD Sri Lakshmi Venkateshwara Nilaya Rd		2	40.00	0.60	0.50	24.00		
Shanimahatma Devasthana Road To End Of Road		2	110.00	0.60	0.55	72.60		
NEW DRAIN								
shri veeranjaneya swamy temple Road(w1339)		2	307.00	1.00	1.00	614.00		
Nammoora Govt School		2	108.00	1.00	1.00	216.00		
CULVERT								
		4	5.70	1.20	1.20	32.83		
						1697.73	**363.56**	**617227.45**
Basic Rate	186.00							
Loading & unLoading	118.00							
Add for lead for earth (1.28 Tonne / Cum) 16km	40.96							
Area Weightage @ 10%	18.60							
Total	**363.56**							

Providing and laying in position **plain cement concrete** for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately).Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates.**Item No.2.1.3,Page No.15, Vol I CSR 21-22**

	Cum							
FOR NEW DRAIN								
shri veeranjaneya swamy temple Road(w1339)		2	307.00	1.00	0.15	92.10		
Nammoora Govt School		2	108.00	1.00	0.15	32.40		
CULVERT								
		5	6.00	1.20	0.15	5.40		
						129.90	**6327.20**	**821903.28**
Basic Rate	5752.00							
Area Weightage @ 10%	575.20							
Total	**6327.20**							

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Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	300.00 Rate	Lakhs Amount
Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The concrete (trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates.**Item No.2.4.2,Page No.17, Vol I CSR 21-22**								
	Cum							
FOR NEW DRAIN RAFT								
shri veeranjaneya swamy temple Road(w1339)		2	307.00	0.90	0.15	82.89		
Nammoora Govt School		2	108.00	0.90	0.15	29.16		
CULVERT RAFT		5	6.00	1.20	0.20	7.20		
FOR NEW DRAIN WALL								
shri veeranjaneya swamy temple Road(w1339)		4	307.00	0.15	0.60	110.52		
Nammoora Govt School		4	108.00	0.15	0.60	38.88		
CULVERT WALL		10	6.00	0.23	0.60	8.28		
						276.93	**7225.68**	**2001007.56**
Basic Rate	6256.00							
Formwork (5%)	312.80							
Sub Total	6568.80							
Area Weightage @ 10%	656.88							
Total	**7225.68**							
Supplying, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / Substructure / Superstructure complete as per Drawing and Technical Specifications. **Item No.9.3 ,Page No.71, Vol III SR 21-22**								
ISSUE RATE DATE(7-04-2022)								
For RCC drain	**Tonne**							
Total RCC Quantity =	kg					261.45		
For 1 CUM = 60	Kg					60.00		
	Kg					15687.00		
						15687.00		
						15.69	**103724.50**	**1627126.23**
For RCC drain	**Tonne**							
Total RCC Quantity =	kg					15.48		
For 1 CUM = 80	Kg					80.00		
	Kg					1238.40		
						1238.40		
						1.24	**103724.50**	**128452.42**
Basic Rate	94295.00							
Area Weightage @ 10%	9,429.50							
Total	**103724.50**							
Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.Item No.6.33,Page No.7, Vol II SR 21-22								
Flagging Course	Sqm							
ROAD SIDE								
veeranjaneya swamy ple Road(w1339)		1	60.00		0.20	12.00		

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Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	300.00 Rate	Lakhs Amount
Vaibhavi Nilaya Road		2	110.25		0.20	44.10		
17th Main		2	54.00		0.20	21.60		
Om Sai Ram Nilaya		2	18.75		0.20	7.50		
Samruddhi Nilaya Road		2	38.25		0.20	15.30		
Khadhyota Nilay Rd		2	38.63		0.20	15.45		
16th Main Road		2	75.00		0.20	30.00		
16th Cross RD		2	65.25		0.20	26.10		
Maruthi Electricals		2	30.00		0.20	12.00		
Cross Rd-2		2	48.75		0.20	19.50		
Cross RD-3		2	15.75		0.20	6.30		
Cross RD-4		1	22.50		0.20	4.50		
Cross RD-5		2	26.25		0.20	10.50		
Sri Veerabhadra Motors		2	90.00		0.20	36.00		
Cross Rd-6		2	15.00		0.20	6.00		
MuniBettadeshwara Swamy Trust		2	78.00		0.20	31.20		
SLV Condiments		2	66.00		0.20	26.40		
Nammoora Govt School Ground RD		2	63.75		0.20	25.50		
Sri Lakshmi Venkateshwara Nilaya Rd		2	30.00		0.20	12.00		
Shanimahatma Devasthana Road To End Of Road		2	82.50		0.20	33.00		
OFF SIDE								
shri veeranjaneya swamy temple Road(w1339)		1	60.00		0.20	12.00		
Vaibhavi Nilaya Road		2	110.25		0.20	44.10		
17th Main		2	54.00		0.20	21.60		
Om Sai Ram Nilaya		2	18.75		0.20	7.50		
Samruddhi Nilaya Road		2	38.25		0.20	15.30		
Khadhyota Nilay Rd		2	38.63		0.20	15.45		
16th Main Road		2	75.00		0.20	30.00		
16th Cross RD		2	65.25		0.20	26.10		
Maruthi Electricals		2	30.00		0.20	12.00		
Cross Rd-2		2	48.75		0.20	19.50		
Cross RD-3		2	15.75		0.20	6.30		
Cross RD-4		1	22.50		0.20	4.50		

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Description of Items	Unit	No	L (M)	B (M)	D (M)	Est.Cost Rs. Qty	300.00 Rate	Lakhs Amount
Cross RD-5		2	26.25		0.20	10.50		
Sri Veerabhadra Motors		2	90.00		0.20	36.00		
Cross Rd-6		2	15.00		0.20	6.00		
MuniBettadeshwara Swamy Trust		2	78.00		0.20	31.20		
SLV Condiments		2	66.00		0.20	26.40		
Nammoora Govt School Ground		2	63.75		0.20	25.50		
RD		2	30.00		0.20	12.00		
Sri Lakshmi Venkateshwara Nilaya Rd		2	82.50		0.20	33.00		
Shanmahatma Devasthana Road To End Of Road								
Basic Rate	1067.00							
Area Weightage @ 10%	106.70					789.90	1173.70	927105.63
Total	**1173.70**							

Providing Flush/ Ruled pointing: Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge.**Item No.8.19.1,Page No.44, Vol II SR 21-22**

Flagging Course	Sqm							
ROAD SIDE								
shri veeranjaneya swamy temple Road(w1339)		1	60.00		0.20	12.00		
Vaibhavi Nilaya Road		2	110.25		0.20	44.10		
17th Main		2	54.00		0.20	21.60		
Om Sai Ram Nilaya		2	18.75		0.20	7.50		
Samruddhi Nilaya Road		2	38.25		0.20	15.30		
Khadhyota Nilay Rd		2	38.63		0.20	15.45		
16th Main Road		2	75.00		0.20	30.00		
16th Cross RD		2	65.25		0.20	26.10		
Maruthi Electricals		2	30.00		0.20	12.00		
Cross Rd-2		2	48.75		0.20	19.50		
Cross RD-3		2	15.75		0.20	6.30		
Cross RD-4		1	22.50		0.20	4.50		
Cross RD-5		2	26.25		0.20	10.50		
Sri Veerabhadra Motors		2	90.00		0.20	36.00		
Cross Rd-6		2	15.00		0.20	6.00		
MuniBettadeshwara Swamy Trust		2	78.00		0.20	31.20		
SLV Condiments		2	66.00		0.20	26.40		

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Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. 300.00 Lakhs Qty	Rate	Amount
ammoora Govt School Ground		2	63.75		0.20	25.50		
Lakshmi Venkateshwara		2	30.00		0.20	12.00		
ilaya Rd		2	82.50		0.20	33.00		
hanimahatma Devasthana oad To End Of Road								
OFF SIDE								
Veeranjaneya swamy		1	60.00		0.20	12.00		
emple Road(w1339)		2	110.25		0.20	44.10		
akshmi Nilaya Road		2	54.00		0.20	21.60		
7th Main		2	18.75		0.20	7.50		
m Sai Ram Nilaya		2	38.25		0.20	15.30		
amruddhi Nilaya Road		2	38.63		0.20	15.45		
adhyota Nilay Rd		2	75.00		0.20	30.00		
16th Main Road		2	65.25		0.20	26.10		
16th Cross RD		2	30.00		0.20	12.00		
aruthi Electricals		2	48.75		0.20	19.50		
ross Rd-2		2	15.75		0.20	6.30		
ross RD-3		1	22.50		0.20	4.50		
ross RD-4		2	26.25		0.20	10.50		
ross RD-5		2	90.00		0.20	36.00		
ri Veerabhadra Motors		2	15.00		0.20	6.00		
ross Rd-6		2	78.00		0.20	31.20		
uniBettadeshwara Swamy rust		2	66.00		0.20	26.40		
LV Condiments		2	63.75		0.20	25.50		
ammoora Govt School Ground D		2	30.00		0.20	12.00		
ri Lakshmi Venkateshwara ilaya Rd		2	82.50		0.20	33.00		
hanimahatma Devasthana oad To End Of Road								
						789.90	**220.00**	**173778.00**
Basic Rate	200.00							
Area Weightage @ 10%	20.00							
Total	**220.00**							

roviding and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately).Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate.**Item No.2.1.4,Page No.15, Vol I SR 21-22**

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Job no:	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	300.00 Rate	Lakhs Amount
	shri veeranjaneya swamy temple Road(w1339)		2	60.00	0.15	0.10	1.80		
	Vaibhavi Nilaya Road		4	110.25	0.15	0.10	6.62		
	17th Main		4	54.00	0.15	0.10	3.24		
	Shri Sai Ram Nilaya		4	18.75	0.15	0.10	1.13		
	Samruddhi Nilaya Road		4	38.25	0.15	0.10	2.30		
	Chadhyota Nilay Rd		4	38.63	0.15	0.10	2.32		
	16th Main Road		4	75.00	0.15	0.10	4.50		
	16th Cross RD		4	65.25	0.15	0.10	3.92		
	Maruthi Electricals		4	30.00	0.15	0.10	1.80		
	Cross Rd-2		4	48.75	0.15	0.10	2.93		
	Cross RD-3		4	15.75	0.15	0.10	0.95		
	Cross RD-4		2	22.50	0.15	0.10	0.68		
	Cross RD-5		4	26.25	0.15	0.10	1.58		
	Sri Veerabhadra Motors		4	90.00	0.15	0.10	5.40		
	Cross Rd-6		4	15.00	0.15	0.10	0.90		
	MuniBettadeshwara Swamy Trust		4	78.00	0.15	0.10	4.68		
	SLV Condiments		4	66.00	0.15	0.10	3.96		
	Nammoora Govt School Ground RD		4	63.75	0.15	0.10	3.83		
	Sri Lakshmi Venkateshwara Nilaya Rd		4	30.00	0.15	0.10	1.80		
	Shanimahatma Devasthana Road To End Of Road		4	82.50	0.15	0.10	4.95		
	FOR KERB BED								
	shri veeranjaneya swamy temple Road(w1339)		2	214.90	0.15	0.05	3.22		
	Nammoora Govt School		2	96.25	0.15	0.05	1.44		
	Vaibhavi Nilaya Road		2	102.90	0.15	0.05	1.54		
	17th Main		2	50.40	0.15	0.05	0.76		
	Samruddhi Nilaya Road		2	36.05	0.15	0.05	0.54		
	16th Main Road		2	70.00	0.15	0.05	1.05		
	16th Cross RD		2	60.90	0.15	0.05	0.91		
	SLV Condiments		2	61.60	0.15	0.05	0.92		
	Nammoora Govt School Ground RD		2	59.50	0.15	0.05	0.89		
							70.53	**6518.60**	**459756.86**
	Basic Rate	5926.00							
	Area Weightage @ 10%	592.60							

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Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	300.00 Rate	Lakhs Amount
	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.- do - 7.5 cms thick (P-27/5.31.1) PWD SR 2018-19								
	Total	6518.60							
		Sqm							
							360.11		
	Basic Rate	700.00							
	Area Weightage @ 6%	42.00					360.11	742.00	267203.48
	Total	742.00							
	Providing & laying **precast drain cover slab of 100 mm** thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In charge.(0.9x 0.60 x 0.1) **(Approved Data rate)**								
		Sqm							
							147.47		
	Data Rate	2072.00							
	Total	2072.00					147.47	2072.00	305566.13
	Providing B S Slabs of selected quality roughly dressed having a size of 10cms thick and fixed in cement mortar (1:6) including fixing curing etc., complete.as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)								
		Sqm							
	Vaibhavi Nilaya Road		2	44.10	0.90		79.38		
	17th Main		2	21.60	0.90		38.88		
	Om Sai Ram Nilaya		2	7.50	0.90		13.50		
	Samruddhi Nilaya Road		2	15.30	0.90		27.54		
	Khadhyota Nilay Rd		2	15.45	0.90		27.81		
	16th Main Road		2	30.00	0.90		54.00		
	16th Cross RD		2	26.10	0.90		46.98		
	Cross RD-3		2	6.30	0.90		11.34		
	Cross RD-4		1	9.00	0.90		8.10		
	Cross RD-5		2	10.50	0.90		18.90		
	Sri Veerabhadra Motors		2	36.00	0.90		64.80		
	Cross Rd-6		2	6.00	0.90		10.80		
	MuniBettadeshwara Swamy Trust		2	31.20	0.90		56.16		
	Nammoora Govt School Ground RD		2	25.50	0.90		45.90		
	Sri Lakshmi Venkateshwara Nilaya Rd		2	12.00	0.90		21.60		
	FOR NEW RCC DRAIN								
	shri veeranjaneya swamy temple Road(w1339)		2	307.00	0.90		552.60		
	Nammoora Govt School		2	108.00	0.90		194.40		

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Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs.	300.00	Lakhs
							Qty	Rate	Amount
	Data Rate	837.00							
	Total	**837.00**					**1272.69**	**837.00**	**1065241.53**

Providing one line dressing to granite stone slab / granite stone masonry as per specifications, as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)

	Sqm								
For Slab QTY							1272.69		
FOR R&R QTY							1226.61		
Data Rate	242.00								
Total	**242.00**						**2499.30**	**242.00**	**604830.60**

Providing Machine Cutting edges to B S Slabs 2.5cms.wide as per Specifications.(Only Chamfered length Shall be recorded)inclusive of all taxes Complete.,as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)

	m								
			2357.00	3.00			7071.00		
Data Rate	390.00						**7071.00**	**390.00**	**2757690.00**
Total	**390.00**								

Providing & laying **precast drain cover slab of 230 mm** thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.60 x 0.23) **(Approved Data rate)**

	Sqm								
FOR NEW RCC CULVERTS		4.00	5.70	1.20		27.36			
							27.36	**5037.00**	**137812.32**
Data Rate	5037.00								
Total	**5037.00**								

Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165mm respectively,400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork,curing including cost of materials,labour charges of machinery,loading and unloading,lead and lift,transportation etc., complete as directed by the Engineer in charge of the work (Excluding GST and Area Leading Charges)

	MTR								
NEW KERB									
Shri veeranjaneya swamy Temple Road(w1339)		2	214.90			429.80			
Nammoora Govt School		2	96.25			192.50			
Vaibhavi Nilaya Road		2	102.90			205.80			
17th Main		2	50.40			100.80			
Samruddhi Nilaya Road		2	36.05			72.10			
16th Main Road		2	70.00			140.00			
16th Cross RD		2	60.90			121.80			
SLV Condiments		2	61.60			123.20			
Nammoora Govt School Ground RD		2	59.50			119.00			
						1505.00			

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Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs.	300.00	Lakhs
						Qty	Rate	Amount
Data Rate	507.00					3344.44	507.00	1695633.33
Total	**507.00**							

Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces Painting Two Coats on New Concrete Surfaces.**Item No.8.1,Page No.56, Vol III SR 21-22**

	Sqm							
		1	1505.00		0.30	451.50		
Basic Rate	85.00					**451.50**	**93.50**	**42215.25**
Area Weightage @ 10%	8.50							
Total	**93.50**							

Road Works

Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately.**Dismantling of Cement Concrete Pavement Item No.2.19,Page No.10, Vol III SR-21-22**

CONCRETE ROAD	Cum							
shri veeranjaneya swamy temple Road(w1339)		1	307.00	4.00	0.10	122.8		
SS Medical Agency		1	22.00	4.10	0.10	9.0		
Cross Rd-1		1	35.00	1.50	0.10	5.3		
Anjaneya Temple Rd		1	52.00	2.80	0.10	14.6		
Cross Rd-2		1	65.00	2.80	0.10	18.2		
Nammoora Govt School		1	108.00	5.30	0.10	57.2		
Cross RD-3		1	21.00	3.60	0.10	7.6		
Sri Veerabhadra Motors		1	0.00	4.50	0.10	0.0		
MuniBettadeshwara Swamy Trust		1	104.00	4.20	0.10	43.7		
SLV Condiments		1	88.00	5.90	0.10	51.9		
Nammoora Govt School Ground RD		1	85.00	4.50	0.10	38.3		
						368.48	**505.16**	**186141.36**
Basic Rate	422.00							
Add for lead for earth (1.28 Tonne / Cum) 16km	40.96							
Area Weightage @ 10%	42.20							
Total	**505.16**							

Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of & other appurtenances required to complete the workIn all kinds of soils upto 300 mm depth..**Item No.1.12,Page No.8, Vol I SR 21-22**

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Description of Items	Unit	No	L (M)	B (M)	D (M)	Est.Cost Rs. Qty	300.00 Rate	Lakhs Amount
CONCRETE ROAD	Cum							
Om Sai Ram Nilaya		1	25.00	5.20	0.30	39.0		
Sri Lakshmi Venkateshwara Krupa Rd		1	54.00	4.40	0.30	71.3		
shri veeranjaneya swamy temple Road(w1339)		1	307.00	6.40	0.30	589.4		
SS Medical Agency		1	22.00	4.10	0.30	27.1		
Cross Rd-1		1	35.00	1.50	0.30	15.8		
Anjaneya Temple Rd		1	52.00	2.80	0.30	43.7		
Cross Rd-2		1	65.00	2.80	0.30	54.6		
Nammoora Govt School		1	108.00	5.30	0.30	171.7		
Cross RD-3		1	21.00	3.60	0.30	22.7		
MuniBettadeshwara Swamy Trust		1	104.00	4.20	0.30	131.0		
SLV Condiments		1	88.00	5.90	0.30	155.8		
Nammoora Govt School Ground RD		1	85.00	4.50	0.30	114.8		
						1436.76	**112.46**	**161578.03**
Basic Rate	65.00							
Add for lead for earth (1.28 Tonne / Cum) 16km	40.96							
Area Weightage @ 10%	6.50							
Total	**112.46**							

Construction of **Granular Sub-Base** of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401.

Granular Sub-BasePlant Mix Method. Materia.Item No.4.1(V),Page No.19, Vol III SR-21-22

CONCRETE ROAD	Cum							
Om Sai Ram Nilaya		1	25.00	5.20	0.15	19.5		
Sri Lakshmi Venkateshwara Krupa Rd		1	54.00	4.40	0.15	35.6		
shri veeranjaneya swamy temple Road(w1339)		1	307.00	6.40	0.15	294.7		
SS Medical Agency		1	22.00	4.10	0.15	13.5		
Cross Rd-1		1	35.00	1.50	0.15	7.9		
Anjaneya Temple Rd		1	52.00	2.80	0.15	21.8		
Cross Rd-2		1	65.00	2.80	0.15	27.3		
Nammoora Govt School		1	108.00	5.30	0.15	85.9		
Cross RD-3		1	21.00	3.60	0.15	11.3		
MuniBettadeshwara Swamy Trust		1	104.00	4.20	0.15	65.5		

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Job no:-

Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	300.00 Rate	Lakhs
SLV Condiments		1	88.00	5.90	0.15	77.9		
Nammoora Govt School Ground RD		1	85.00	4.50	0.15	57.4		
Basic Rate	2347.00					718.38	2,581.70	
Area Weightage @ 10%	234.70							
Total	**2581.70**							

Construction of **dry lean cement** concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ m3, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 t vibratory roller, finishing and curing.**Item No.6.1,Page No.43, Vol III SR 21-22**

CONCRETE ROAD	Cum							
Om Sai Ram Nilaya		1	25.00	5.20	0.15	19.5		
Sri Lakshmi Venkateshwara Krupa Rd		1	54.00	4.40	0.15	35.6		
shri veeranjaneya swamy temple Road(w1339)		1	307.00	6.40	0.15	294.7		
SS Medical Agency		1	22.00	4.10	0.15	13.5		
Cross Rd-1		1	35.00	1.50	0.15	7.9		
Anjaneya Temple Rd		1	52.00	2.80	0.15	21.8		
Cross Rd-2		1	65.00	2.80	0.15	27.3		
Nammoora Govt School		1	108.00	5.30	0.15	85.9		
Cross RD-3		1	21.00	3.60	0.15	11.3		
MuniBettadeshwara Swamy Trust		1	104.00	4.20	0.15	65.5		
SLV Condiments		1	88.00	5.90	0.15	77.9		
Nammoora Govt School Ground RD		1	85.00	4.50	0.15	57.4		
						718.38	**4615.60**	
Basic Rate	4196.00							
Area Weightage @ 10%	419.60							
Total	**4615.60**							

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Job no:-								
Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs.	300.00	Lakhs
						Qty	Rate	Amount

Construction of un-reinforced,plain cement concrete pavement using M-30 grade using Cement 270Kgs & GGBS 90Kgs (70:30 proportion) From ISO 9001 accredited plants as per IS 4926-2003 with mix design procedure and thickness as per design,over a prepared sub base.The Super plastisiser confirming to IS9103-1999 Reaffirmed-2008,Coarse aggregates and Fine aggregates confirming to IS 383:2016, transported to site, laid in approved fixed side form work (Steel Channel,Laying and Fixing of 125 micron thick polythene film,wedges,steel plates including levelling the form work).Spreding the concrete with shovels,rackers and compacted using needle,suitable plate vibrator and finished in a continous operation including provision of separartion membrane and Hessian cloth finishing to lines and grades complete including cost of all materials,labour,all lead & lift,loading Charges as per specification & direction of Engineer-in charge of the work..(Excluding the Coxt of Groove cutting)

CONCRETE ROAD	Cum							
Om Sai Ram Nilaya		1	25.00	5.20	0.15	19.5		
Sri Lakshmi Venkateshwara Krupa Rd		1	54.00	4.40	0.15	35.6		
shri veeranjaneya swamy temple Road(w1339)		1	307.00	6.40	0.15	294.7		
SS Medical Agency		1	22.00	4.10	0.15	13.5		
Cross Rd-1		1	35.00	1.50	0.15	7.9		
Anjaneya Temple Rd		1	52.00	2.80	0.15	21.8		
Cross Rd-2		1	65.00	2.80	0.15	27.3		
Nammoora Govt School		1	108.00	5.30	0.15	85.9		
Cross RD-3		1	21.00	3.60	0.15	11.3		
MuniBettadeshwara Swamy Trust		1	104.00	4.20	0.15	65.5		
SLV Condiments		1	88.00	5.90	0.15	77.9		
Nammoora Govt School Ground RD		1	85.00	4.50	0.15	57.4		
						718.38	**7334.80**	**5269173.62**
Basic Rate	6668.00							
Area Weightage @ 10%	666.80							
Total	**7334.80**							

7 Cutting transverse contraction joints 3 to 4 mm wide and depth 60mm in concrete slab using concrete cutting machine with dia

studded saw within 48 hours of casting of bay / slab etc. complete including subsequent widening of the groove 8 to 10 mm. w

top having depth of 15 mm. as directed by Engineer incharge .MoRTH 602.6.3 Item No.21-B(4),Page No.146, Vol III SR-21-22

CONCRETE ROAD	MTR							
Om Sai Ram Nilaya		5	25.00	5.20		26.00		
Sri Lakshmi Venkateshwara Krupa Rd		10.8	54.00	4.40		47.52		

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Job no:	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est. Cost Rs. Qty	300.00 Rate	Lakhs Amount
	sha Veeranjaneya swamy temple Road(w1339)		61.4	307.00	6.40		392.96		
	SS Medical Agency		4.4	22.00	4.10		18.04		
	Cross Rd-1		7	35.00	1.50		10.50		
	Anjaneya Temple Rd		10.4	52.00	2.80		29.12		
	Cross Rd-2		13	65.00	2.80		36.40		
	Nammoora Govt School		21.6	108.00	5.30		114.48		
	Cross RD-3		4.2	21.00	3.60		15.12		
	MuniBettadeshwara Swamy Trust		20.8	104.00	4.20		87.36		
	SLV Condiments		17.6	88.00	5.90		103.84		
	Nammoora Govt School Ground RD		17	85.00	4.50		76.50		
	Basic Rate	70.00					957.84	77.00	73753.68
	Area Weightage @ 10%	7.00							
	Total	77.00							

Sub Total	2,49,14,259.09
GST 18%	4484566.64
Project Management Consultancy 1%	300000.00
Detailed project report 1%	300000.00
Miscellaneous	1174.27
Total	3,00,00,000.00

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary

2 The Estimate is prepared as per the PWD SR 2021-22 & PWD SR-2018-19,Issue Rate 07/04/2022

3 The Provision made in estimate are adequate and essential

4 This area comes under BBMP limits.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Consultants Authorised Signatory

Asst Engineer
Ward No- 160
BBMP

Asst Executive Engineer
RR Nagar Sub Division
BBMP

Executive Engineer
RR Nagar Division
BBMP

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KEY MAP

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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EXISTING PHOTOS

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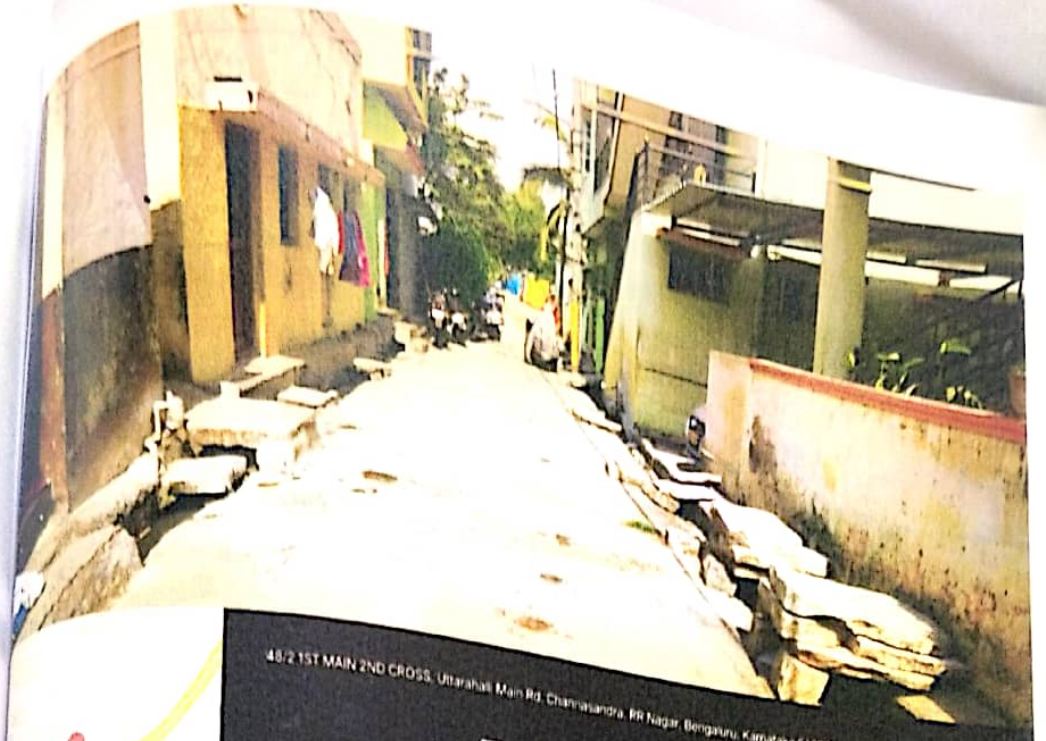

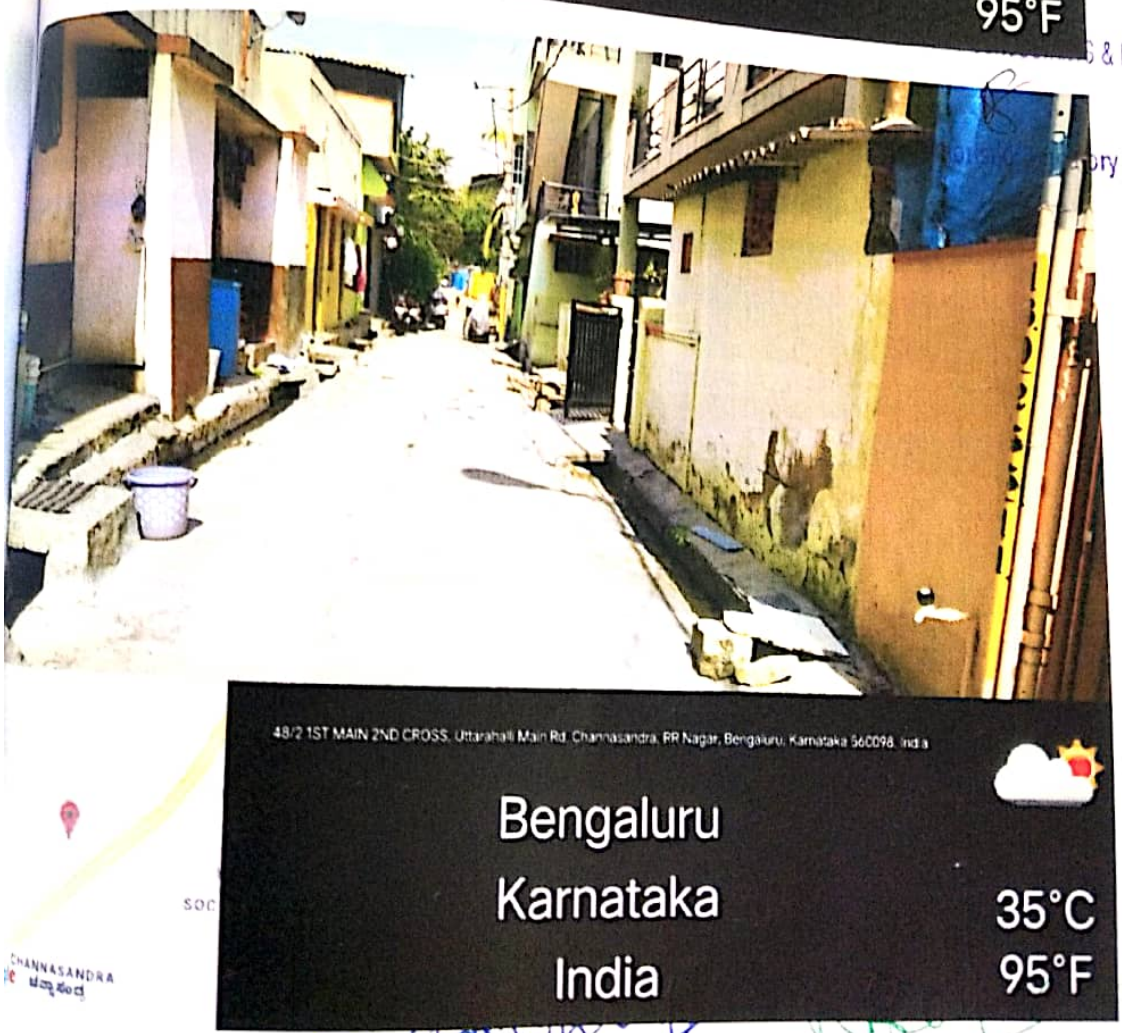

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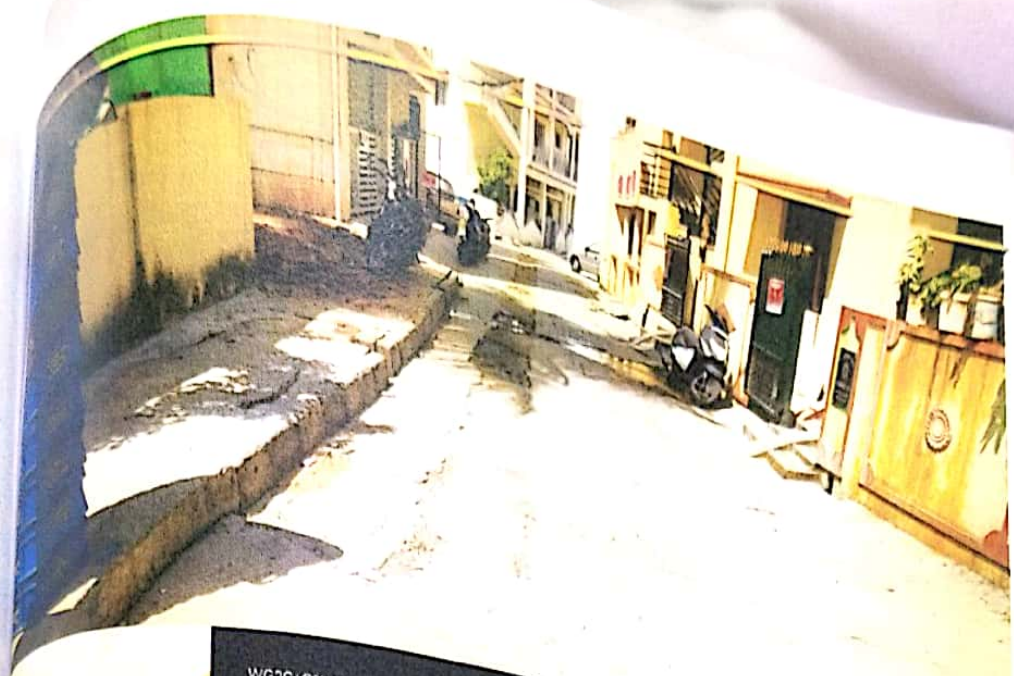

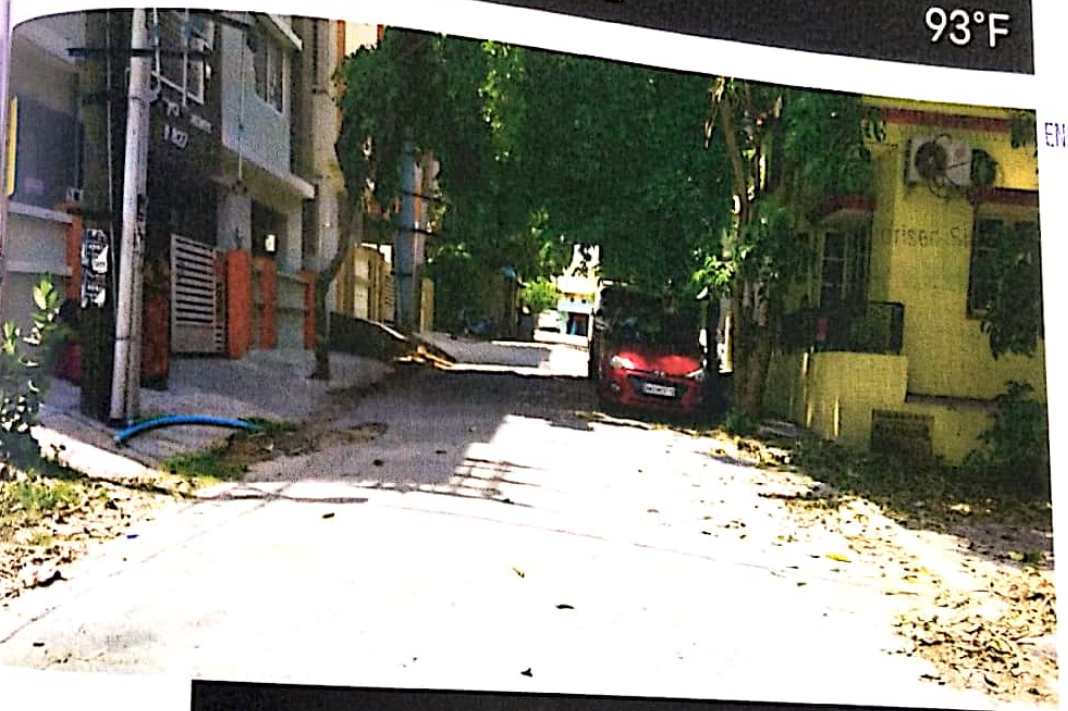

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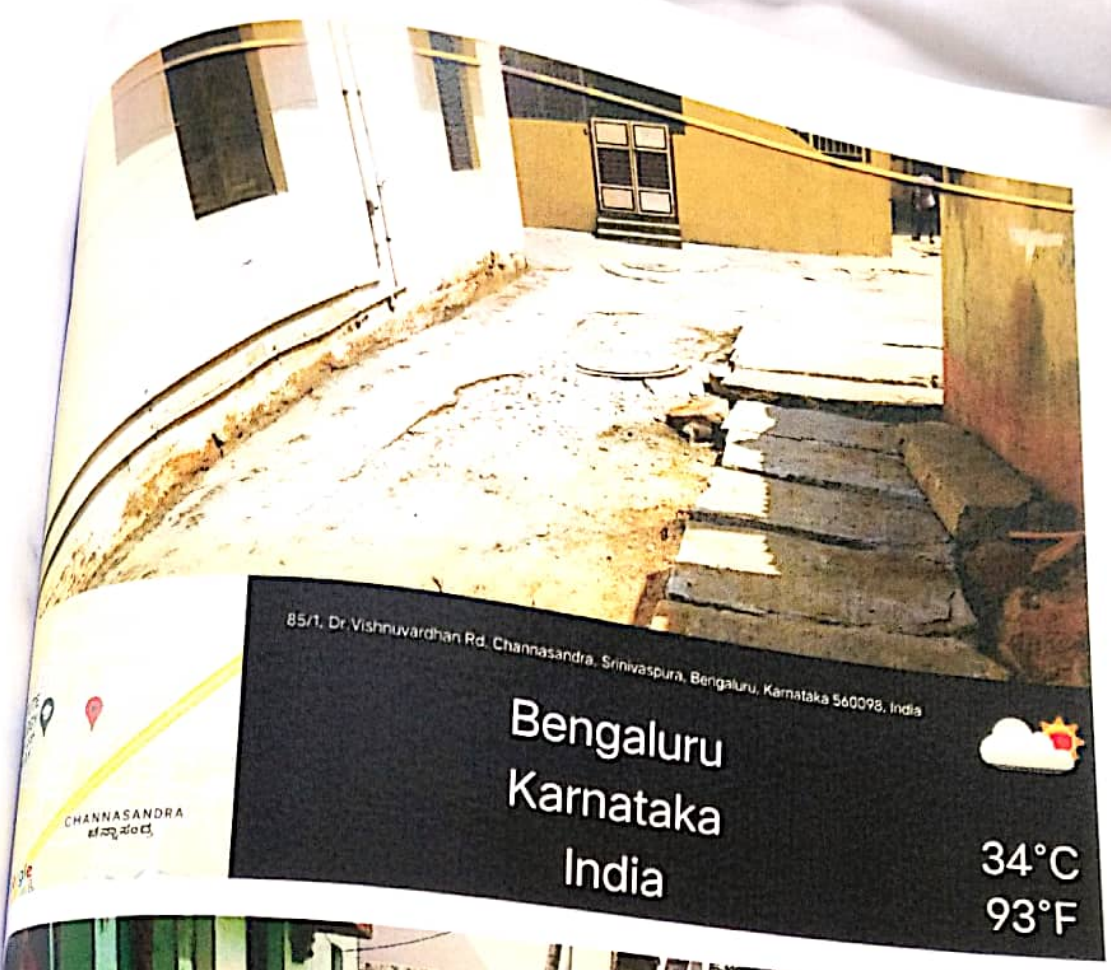

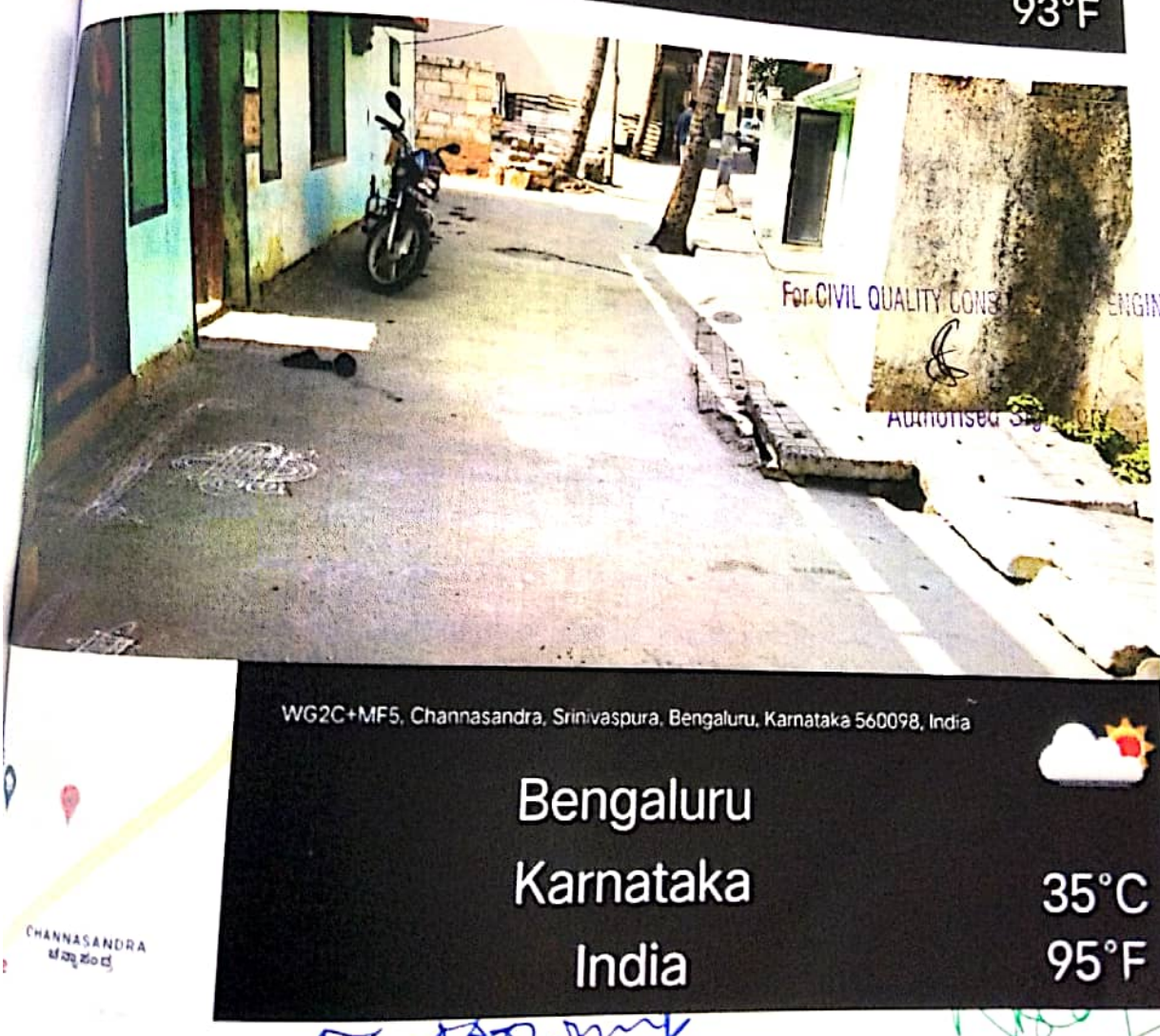

For CIVIL QUALITY CONS ENGINEERS

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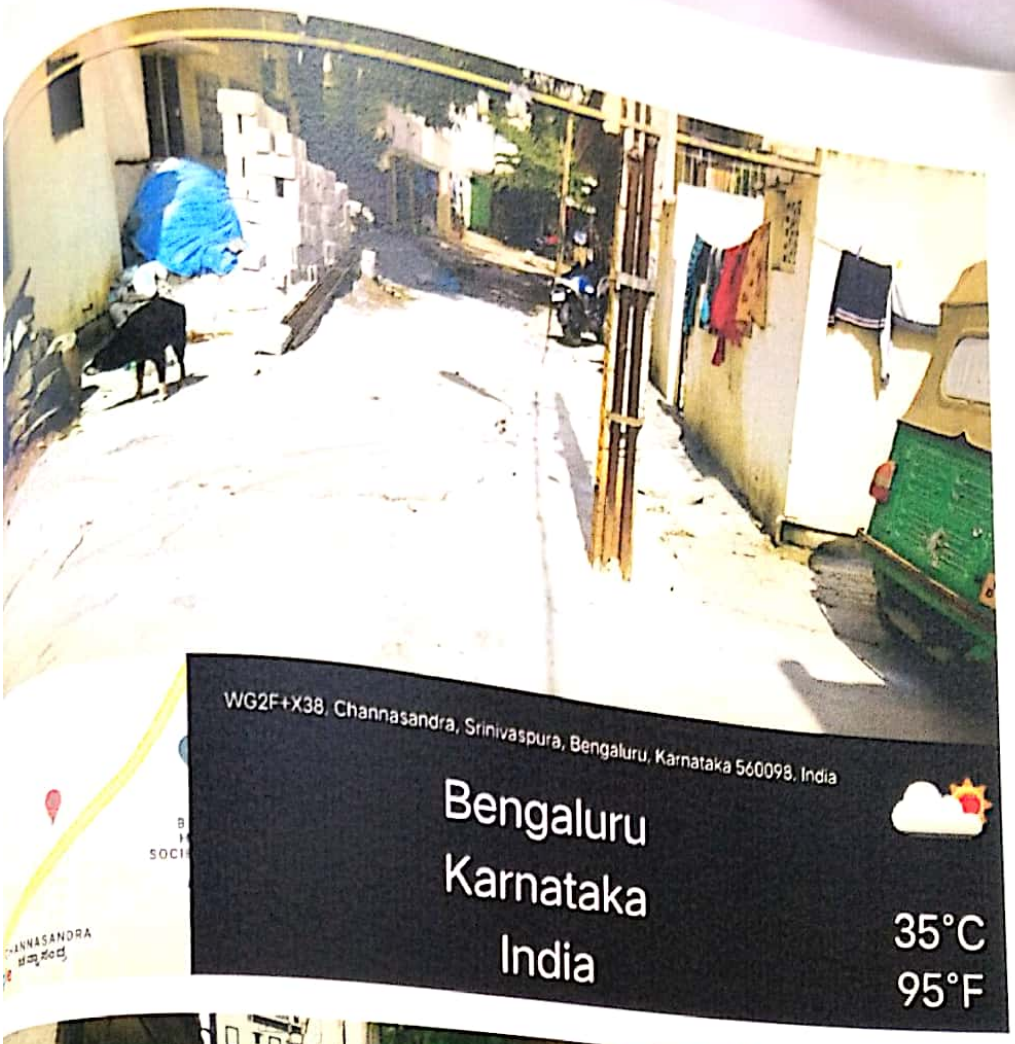

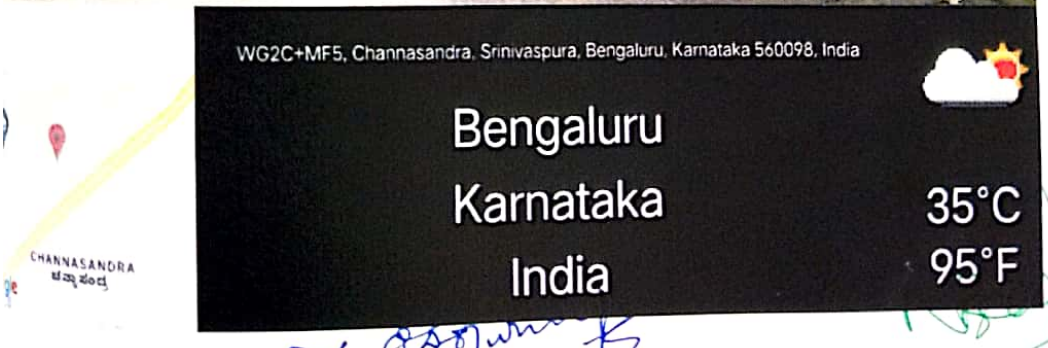

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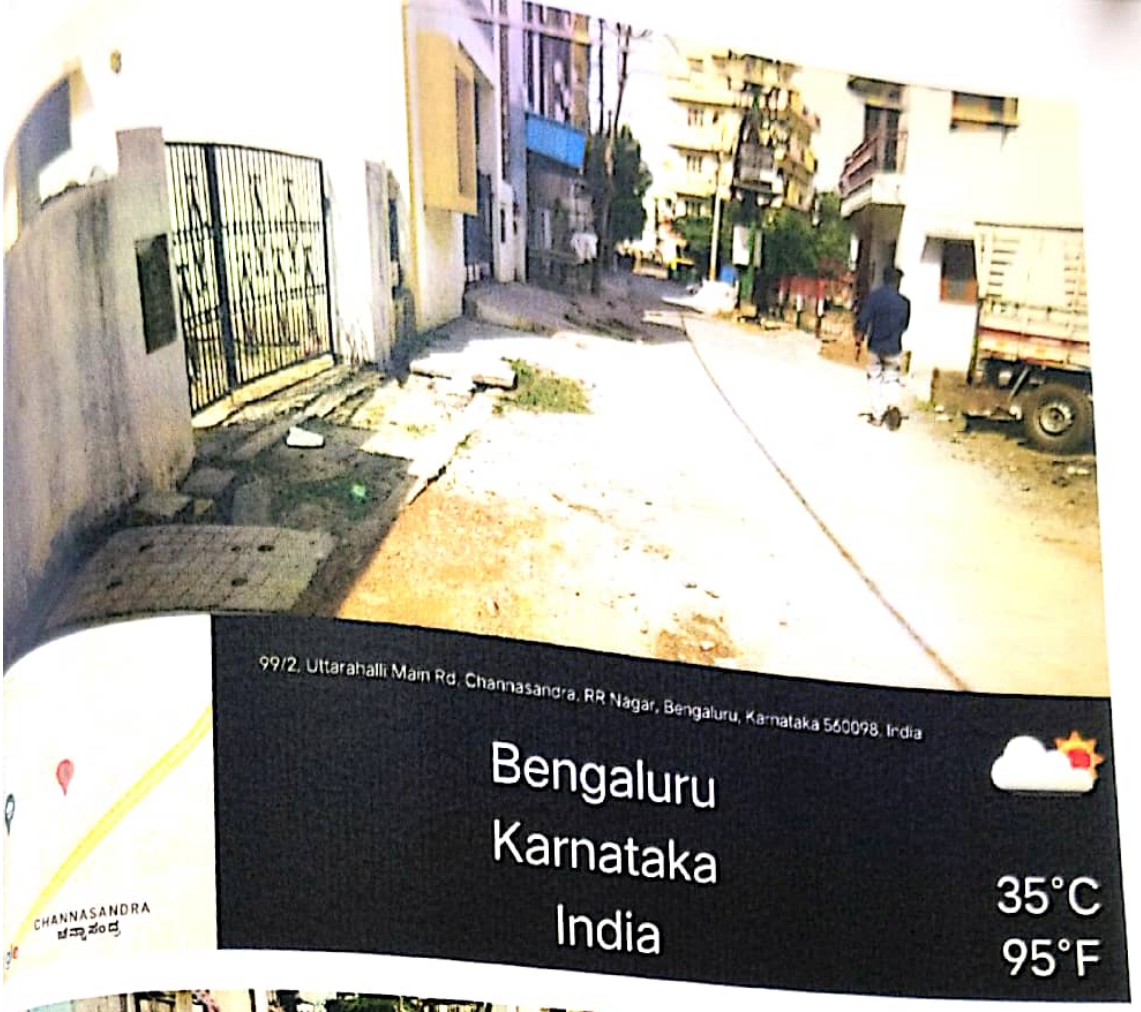

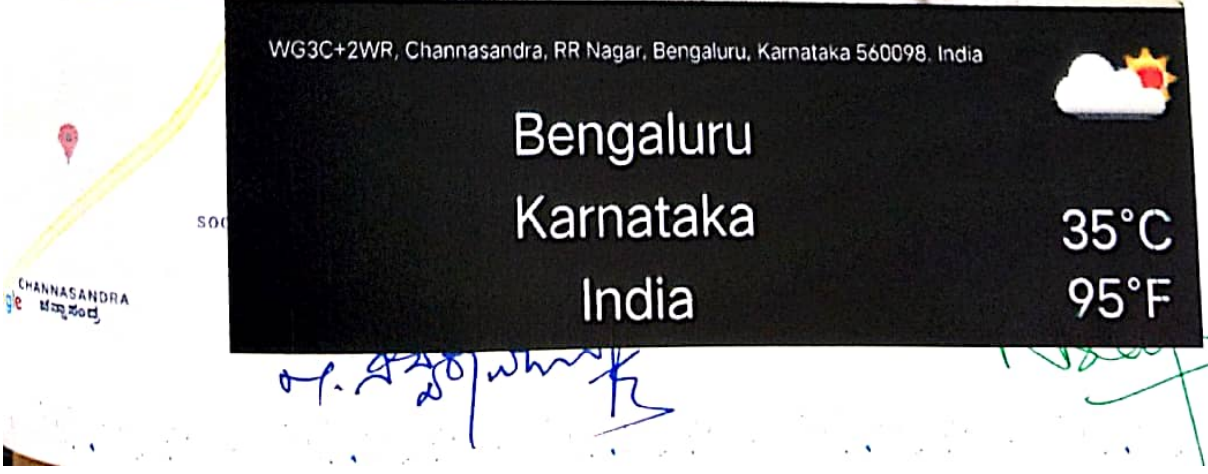

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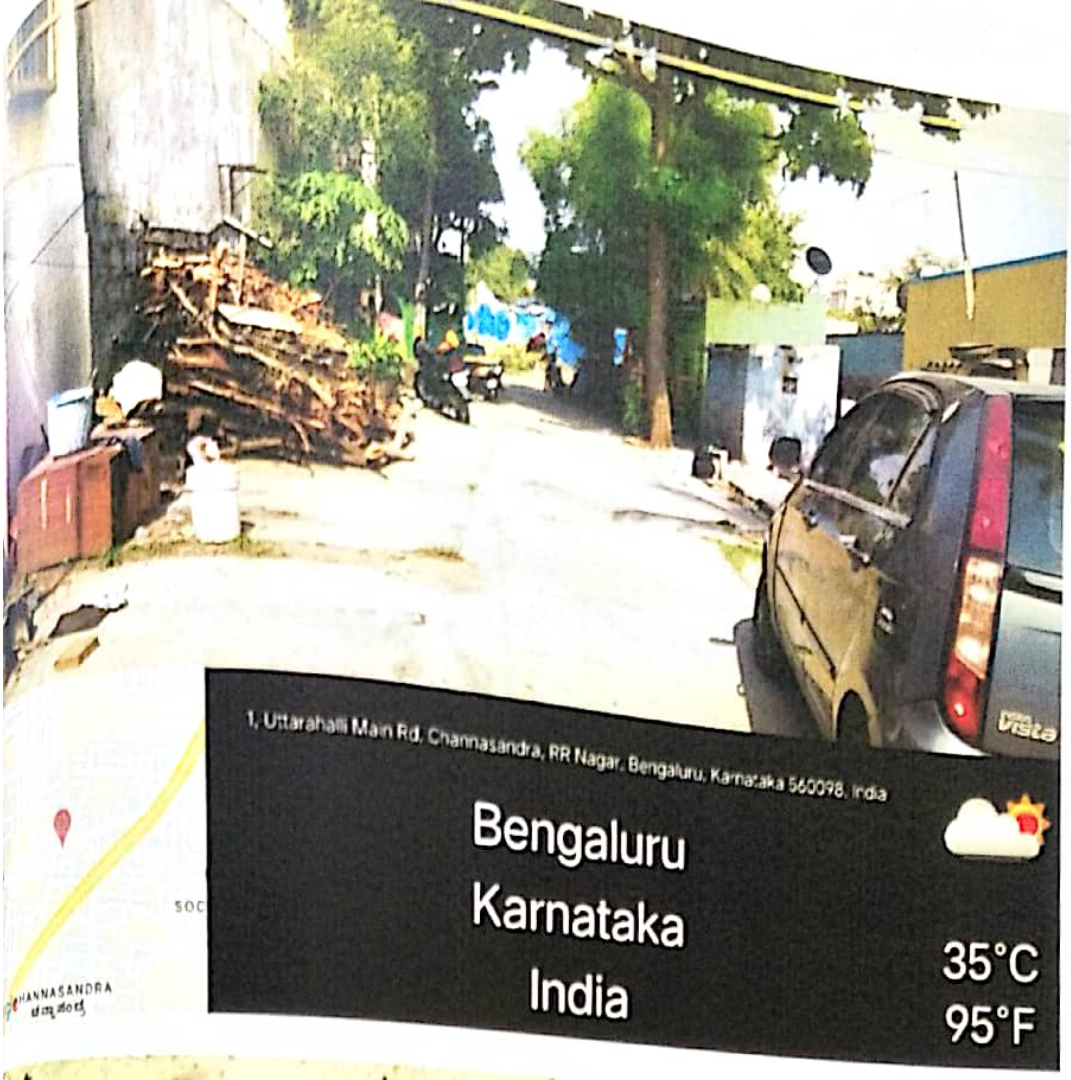

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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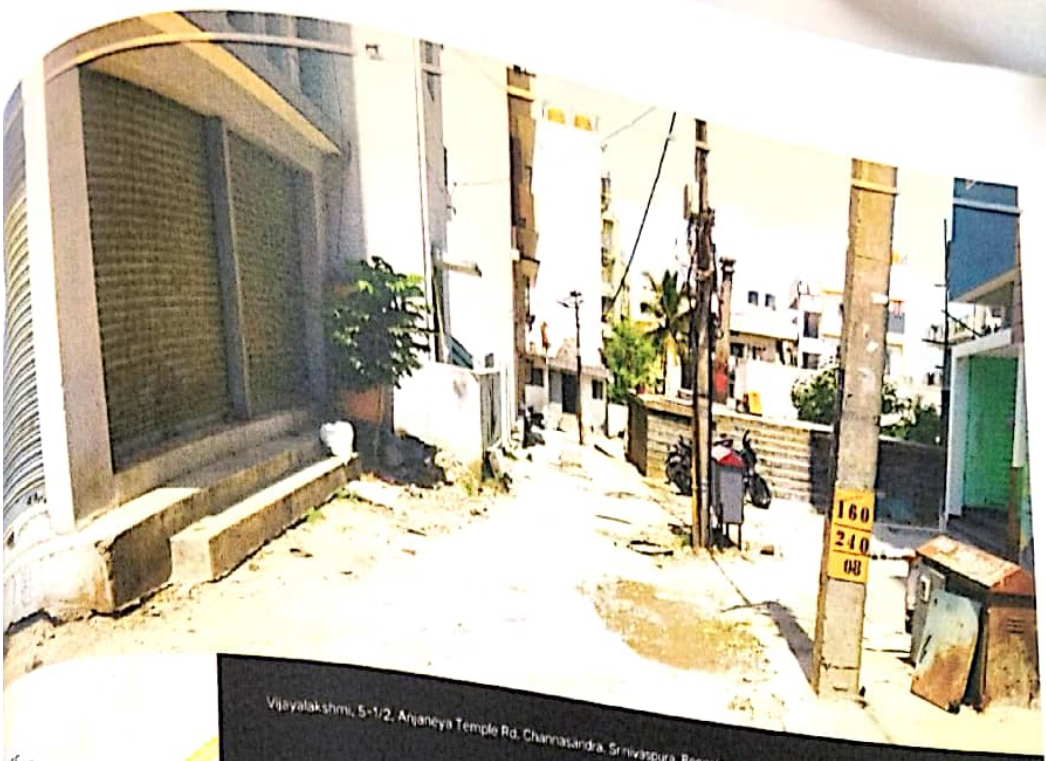
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Karnataka
India
34°C
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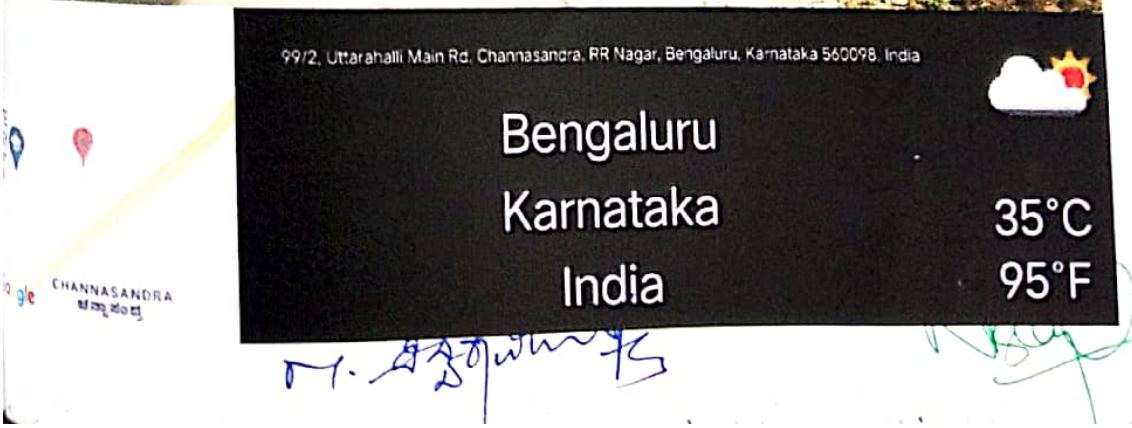
CHANNASANDRA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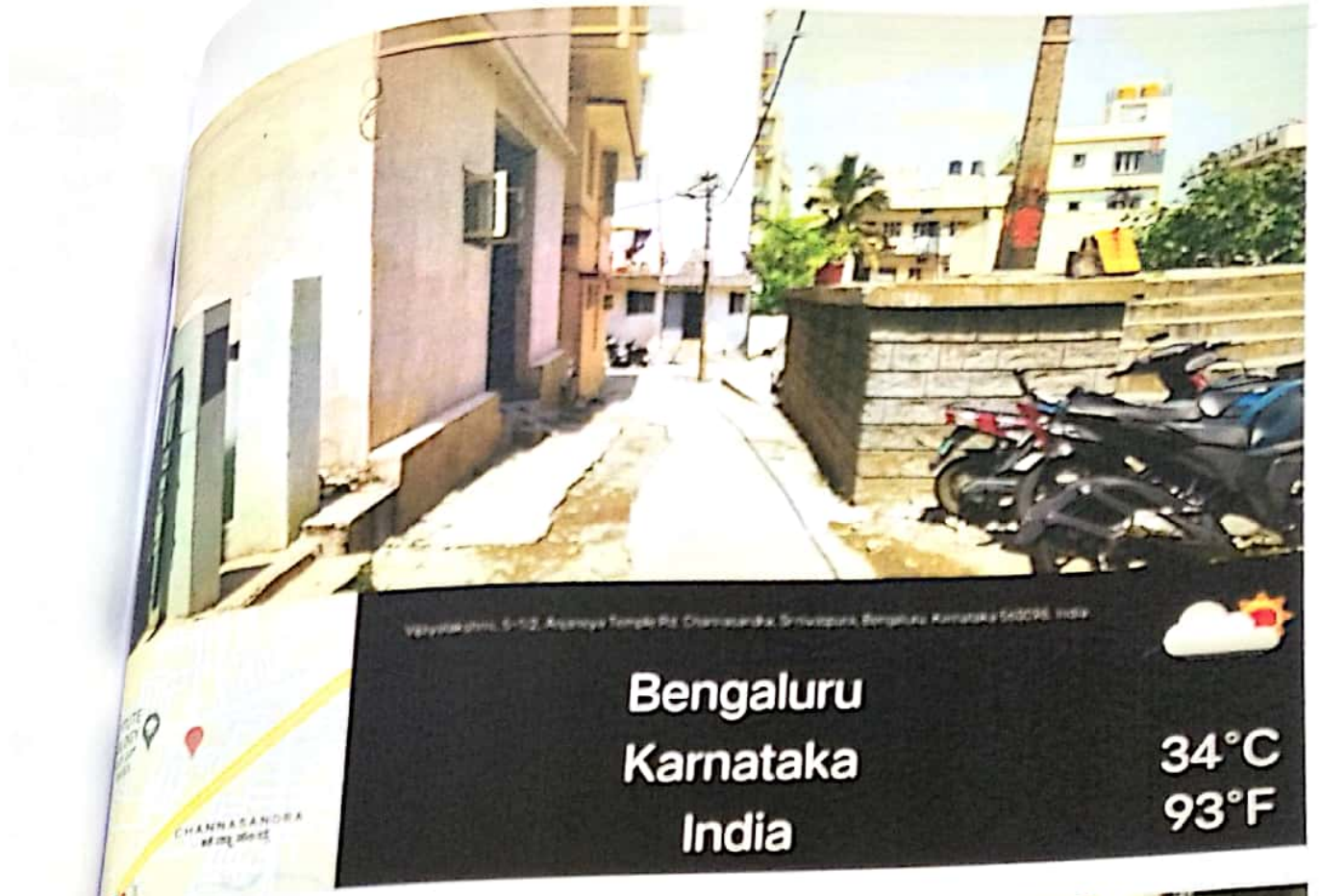
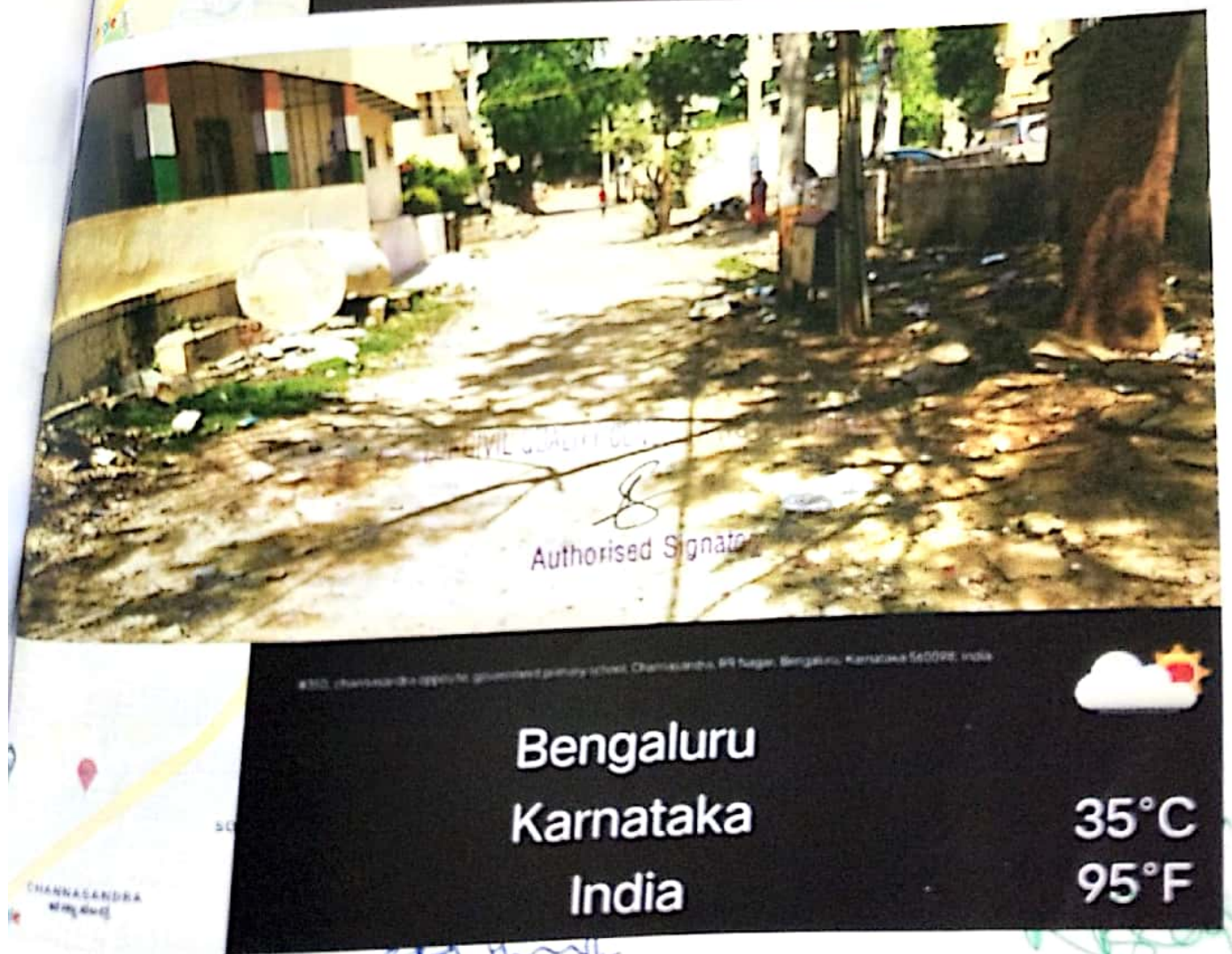
CHANNASANDRA

ENGINEERS





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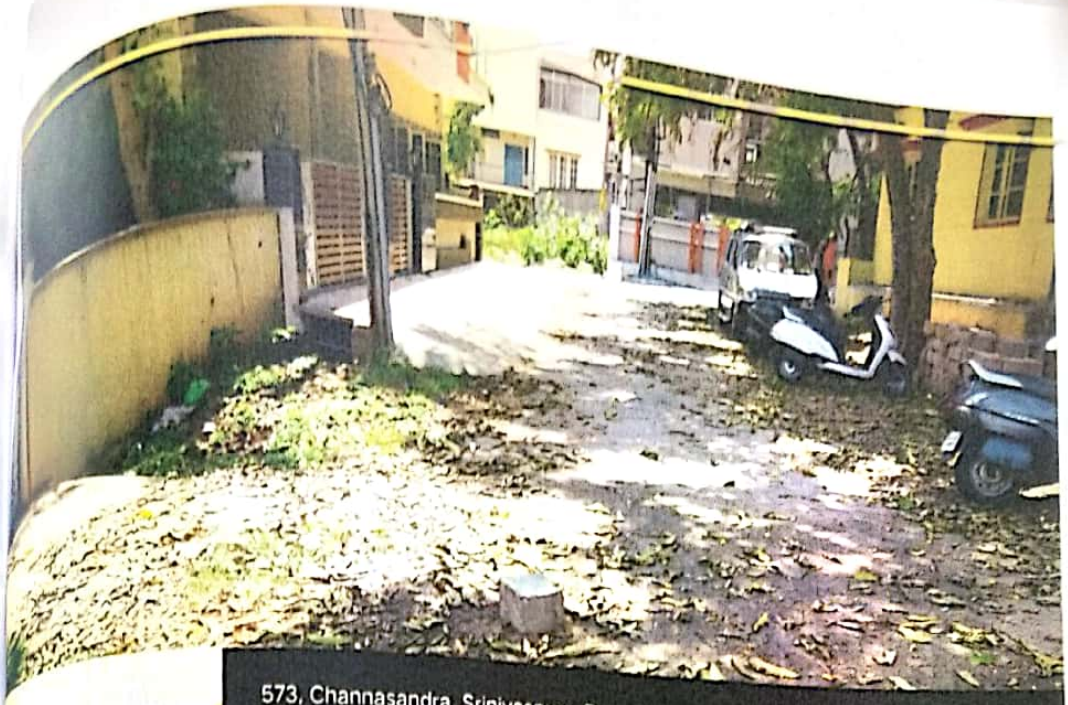

573, Channasandra, Srinivaspura, Bengaluru, Karnataka 560098, India

Bengaluru
Karnataka
India

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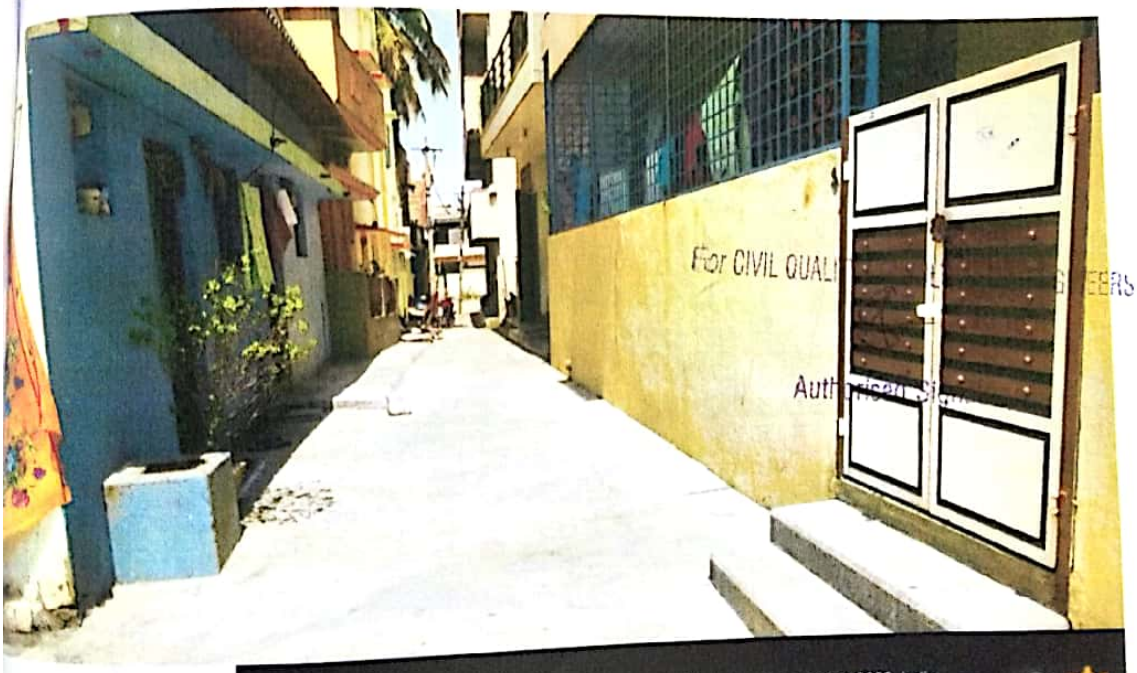
93°F



85/1, Dr Vishnuvardhan Rd, Channasandra, Srinivaspura, Bengaluru, Karnataka 560098, India

Bengaluru
Karnataka
India

34°C
93°F

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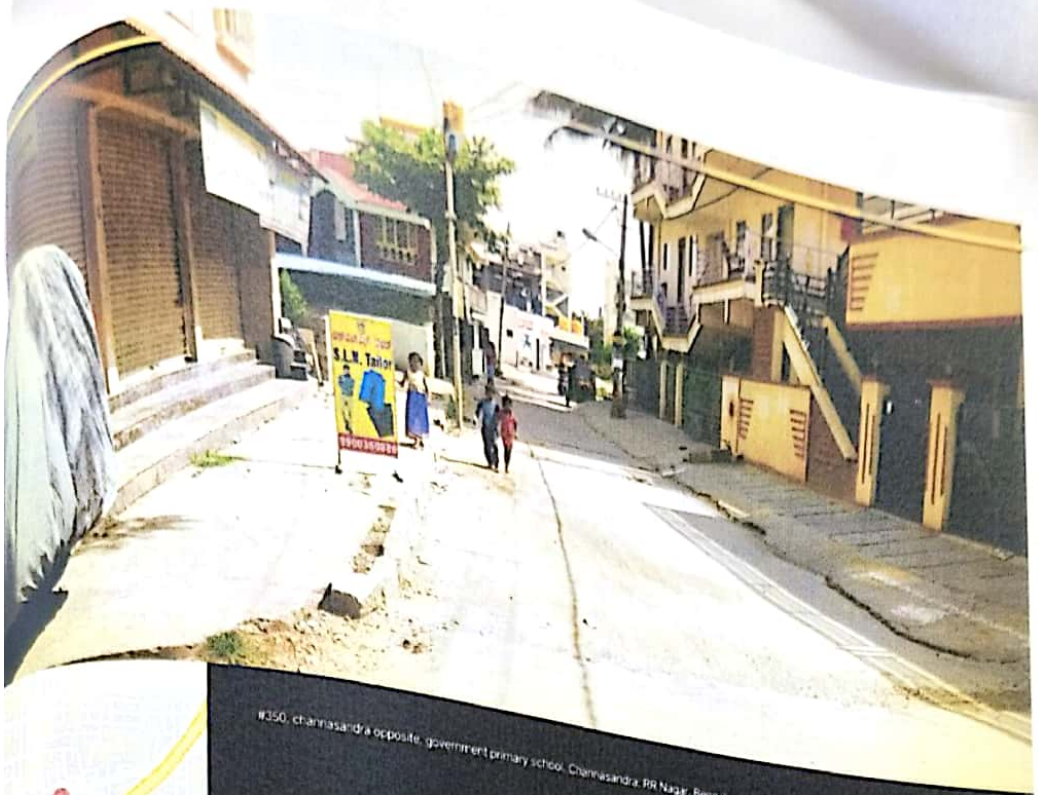

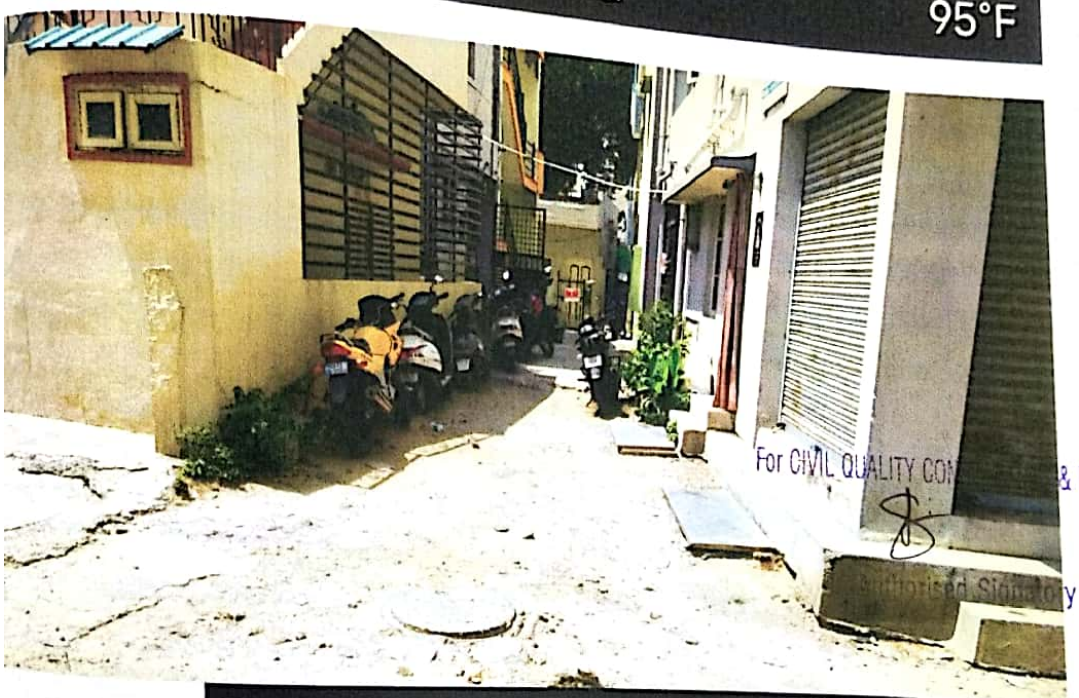

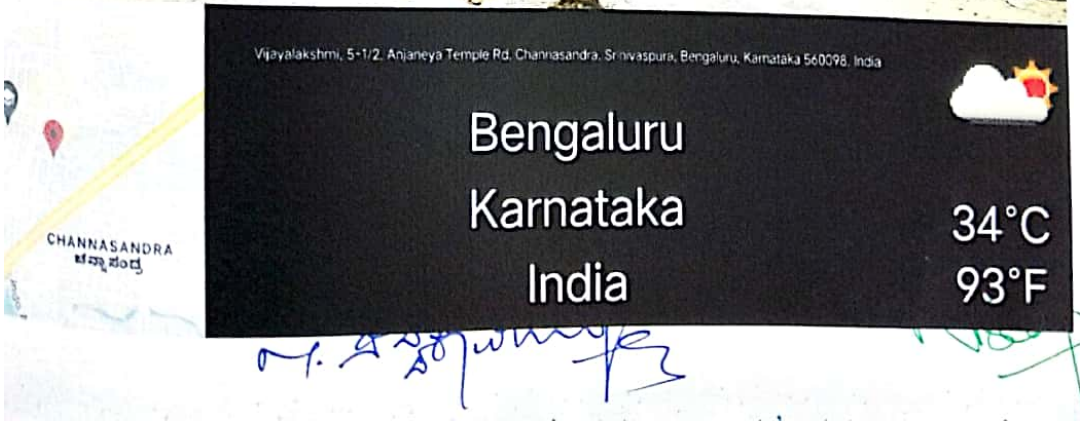

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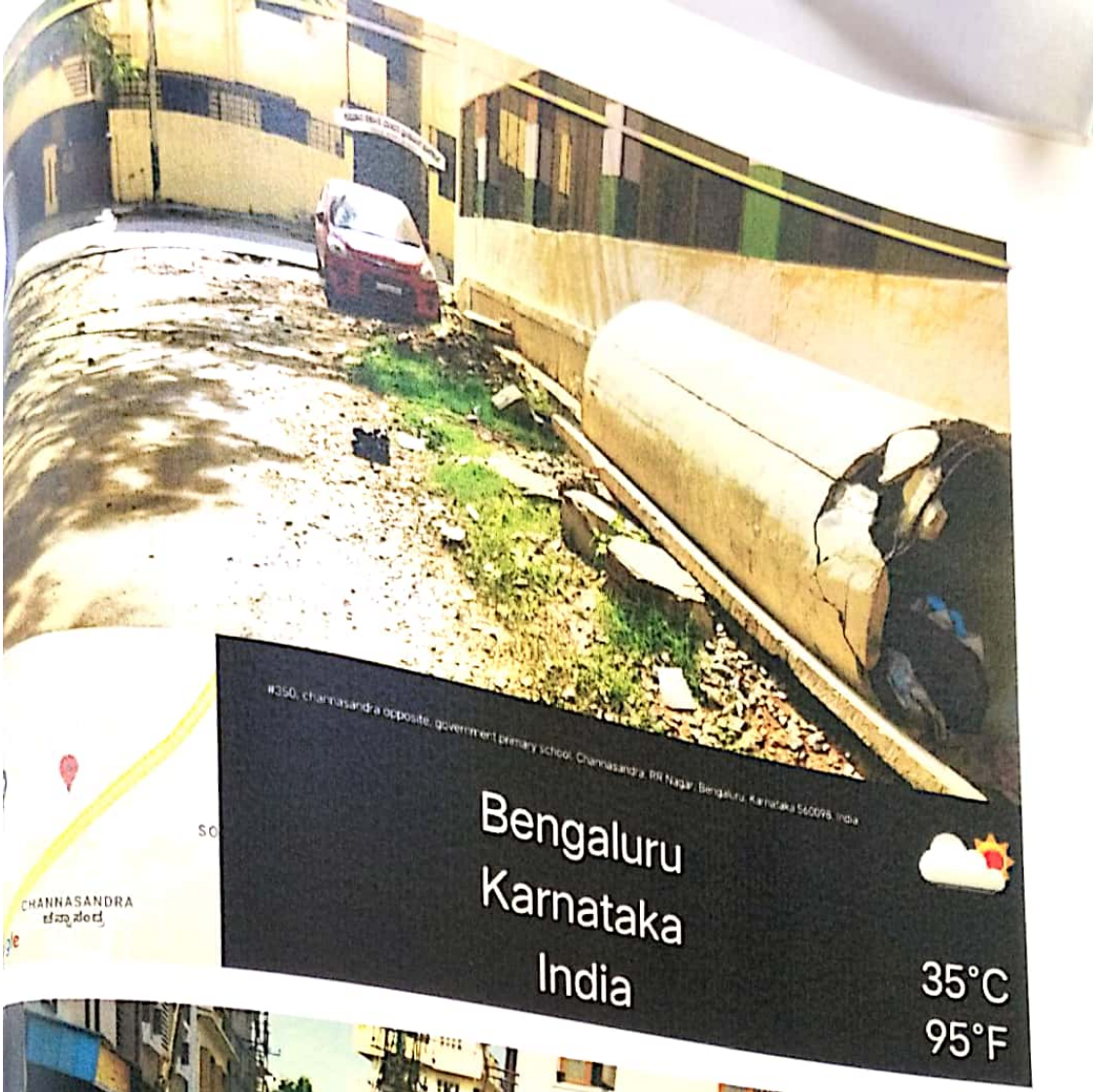

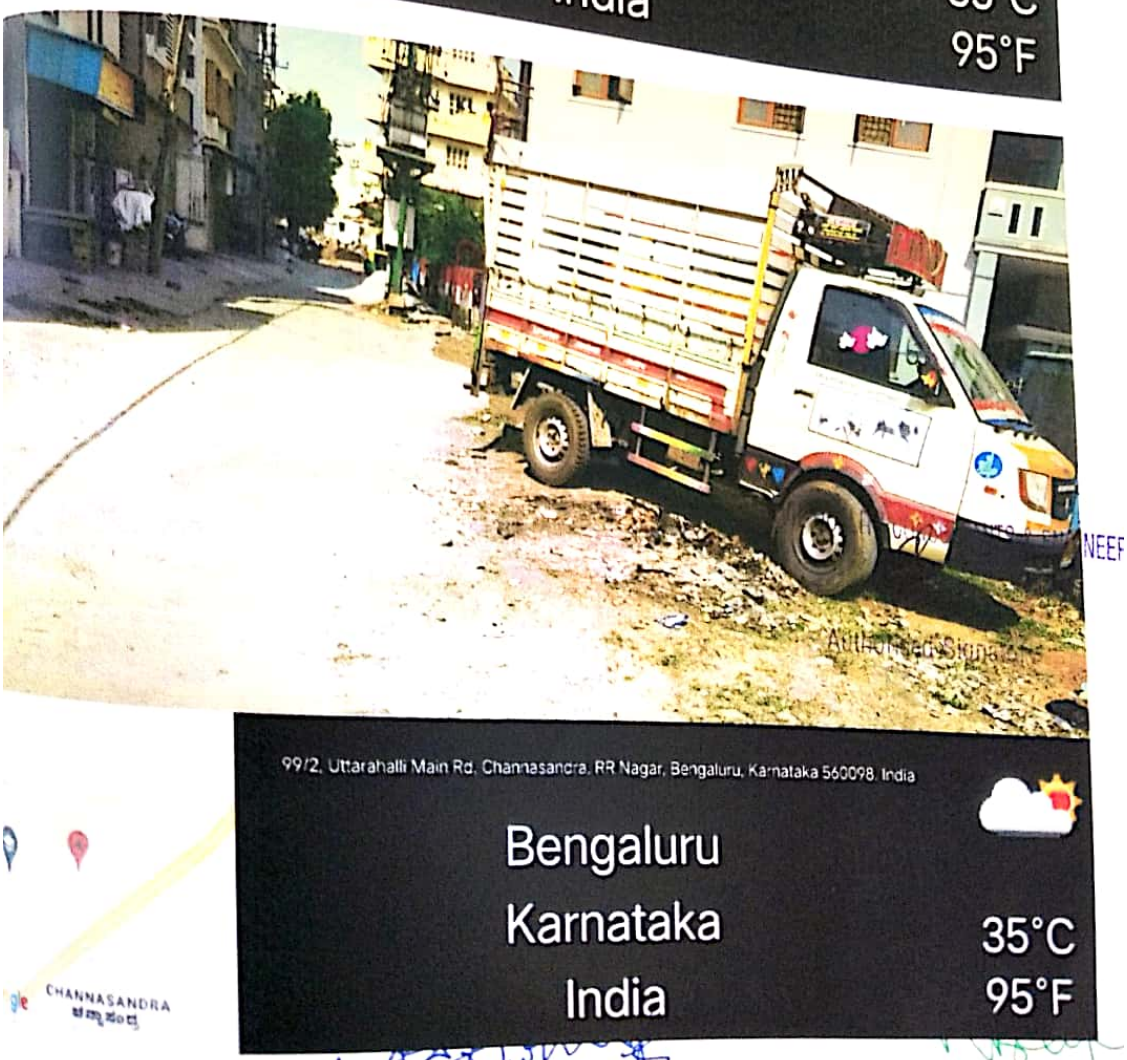

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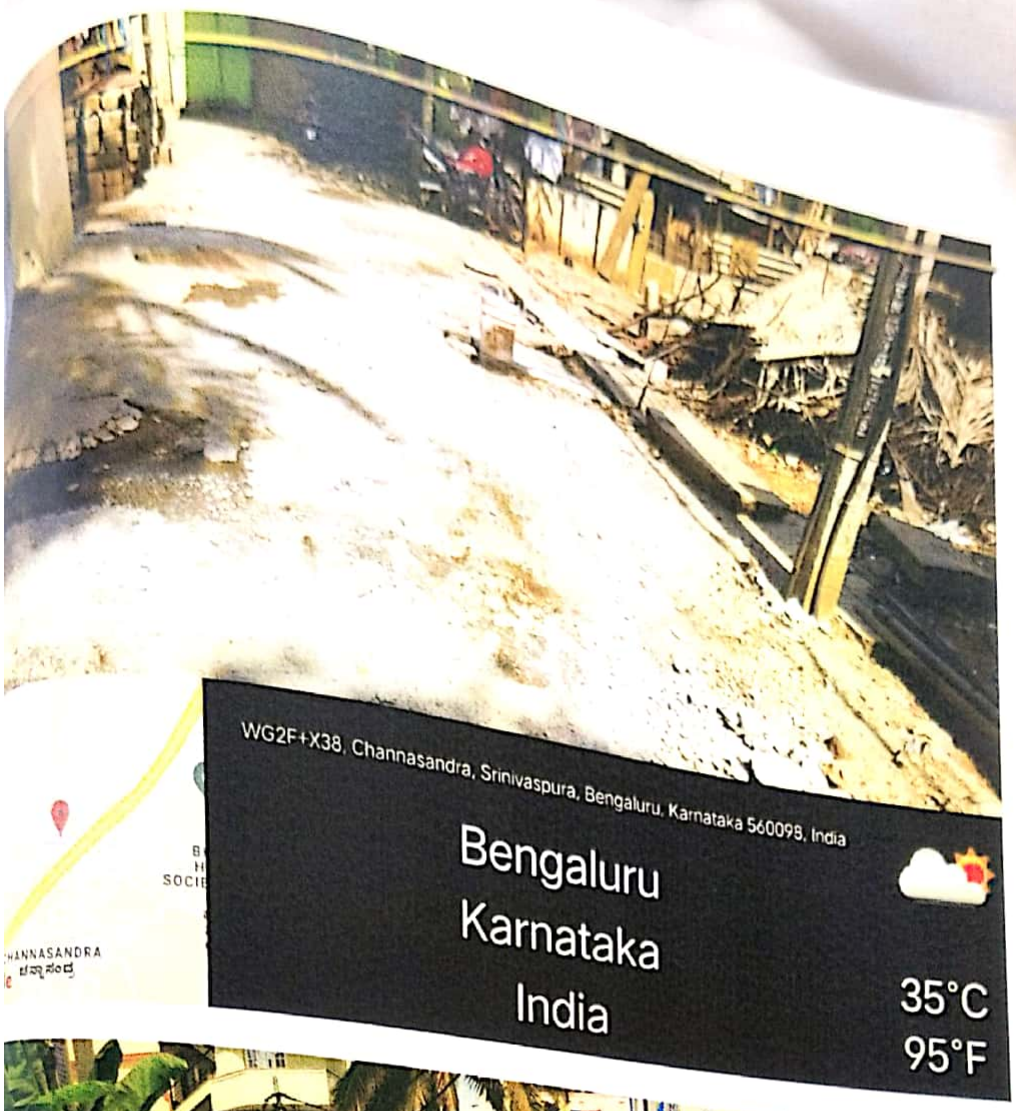

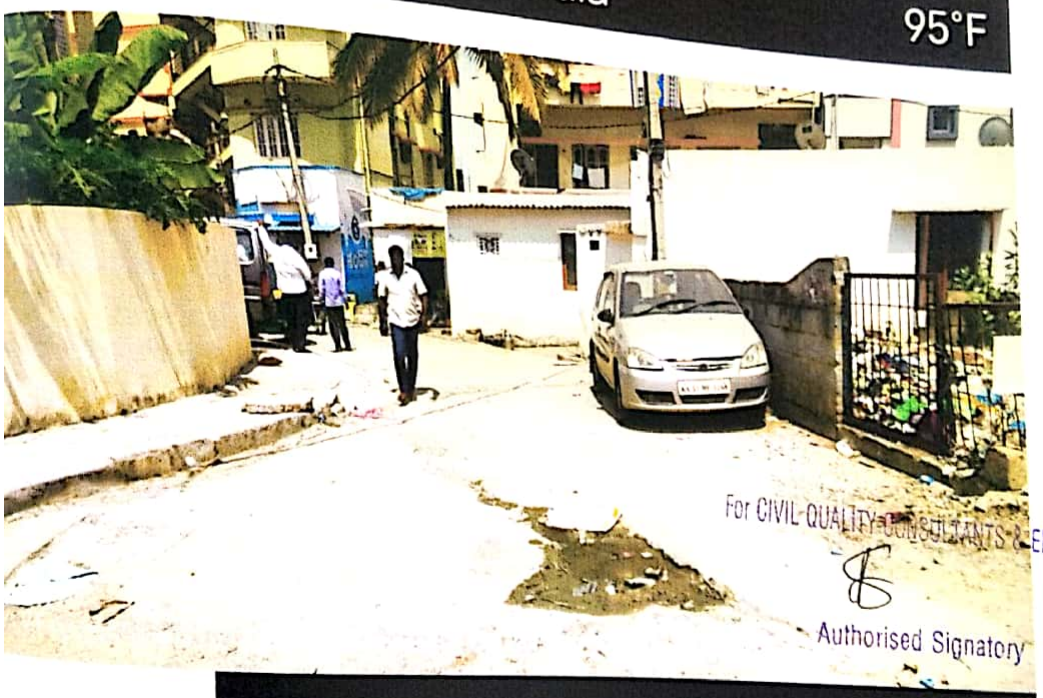

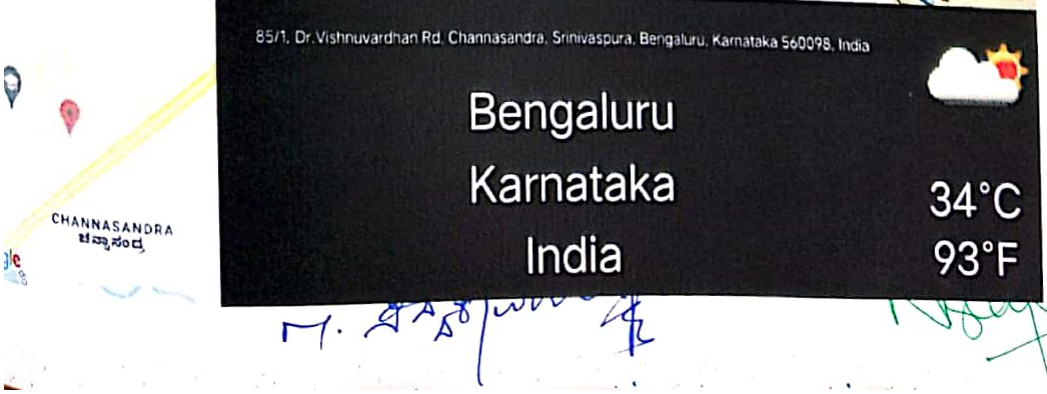

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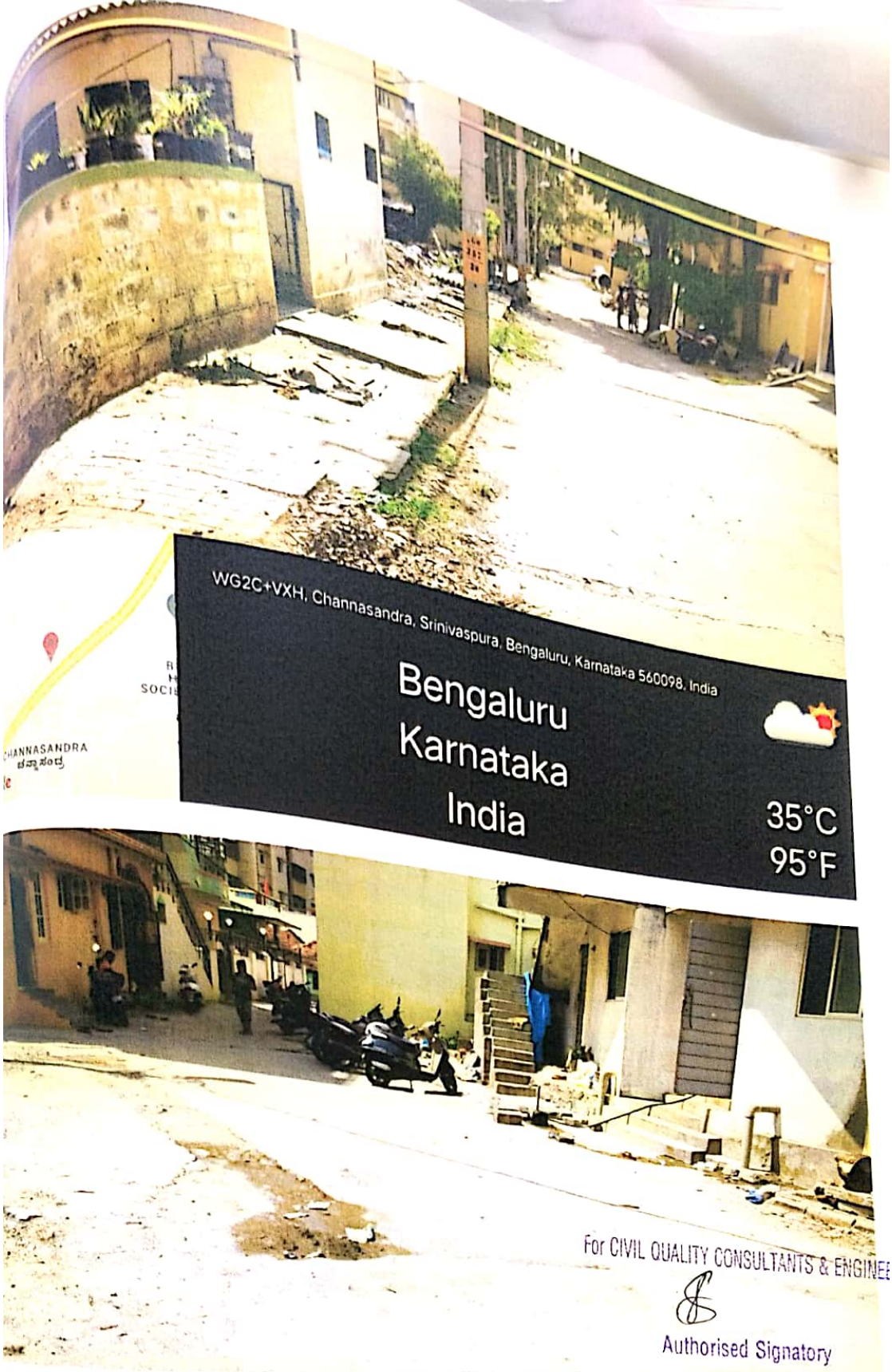

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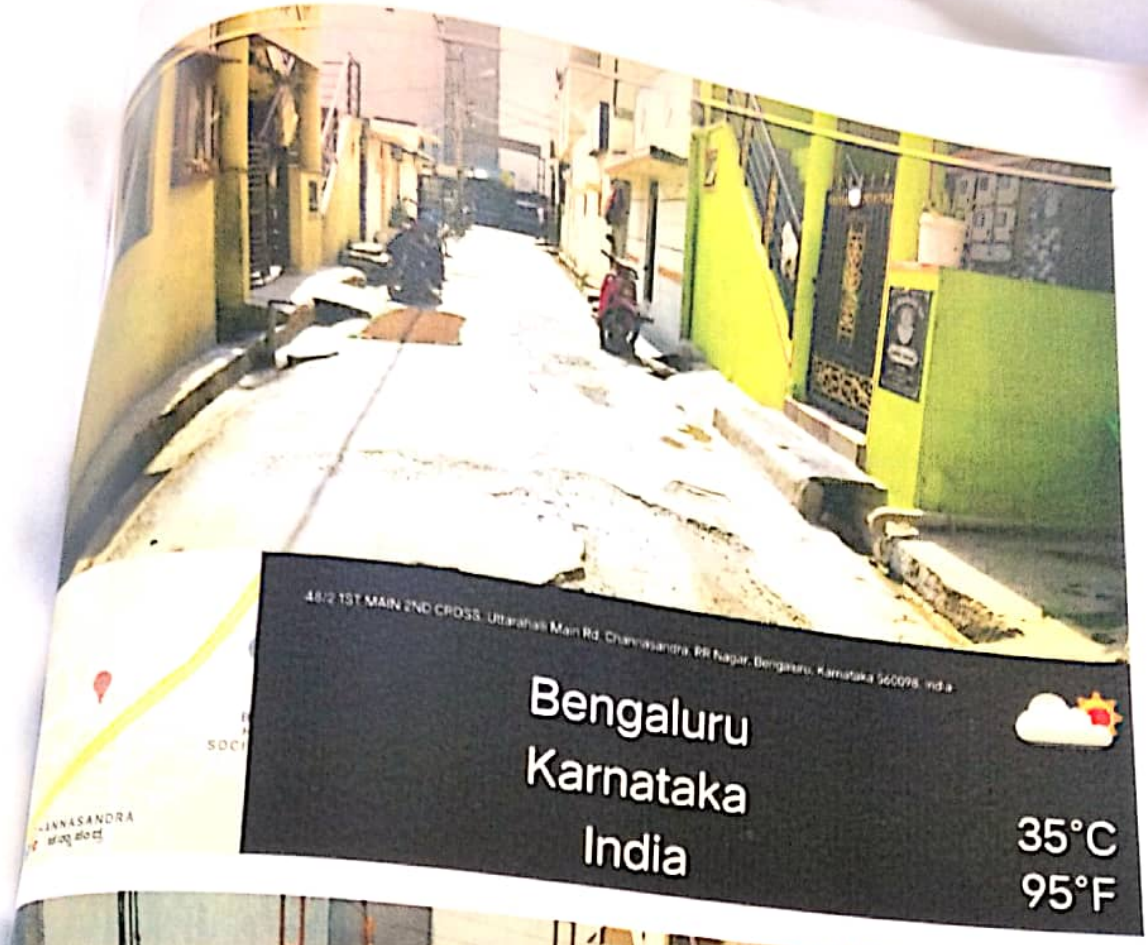

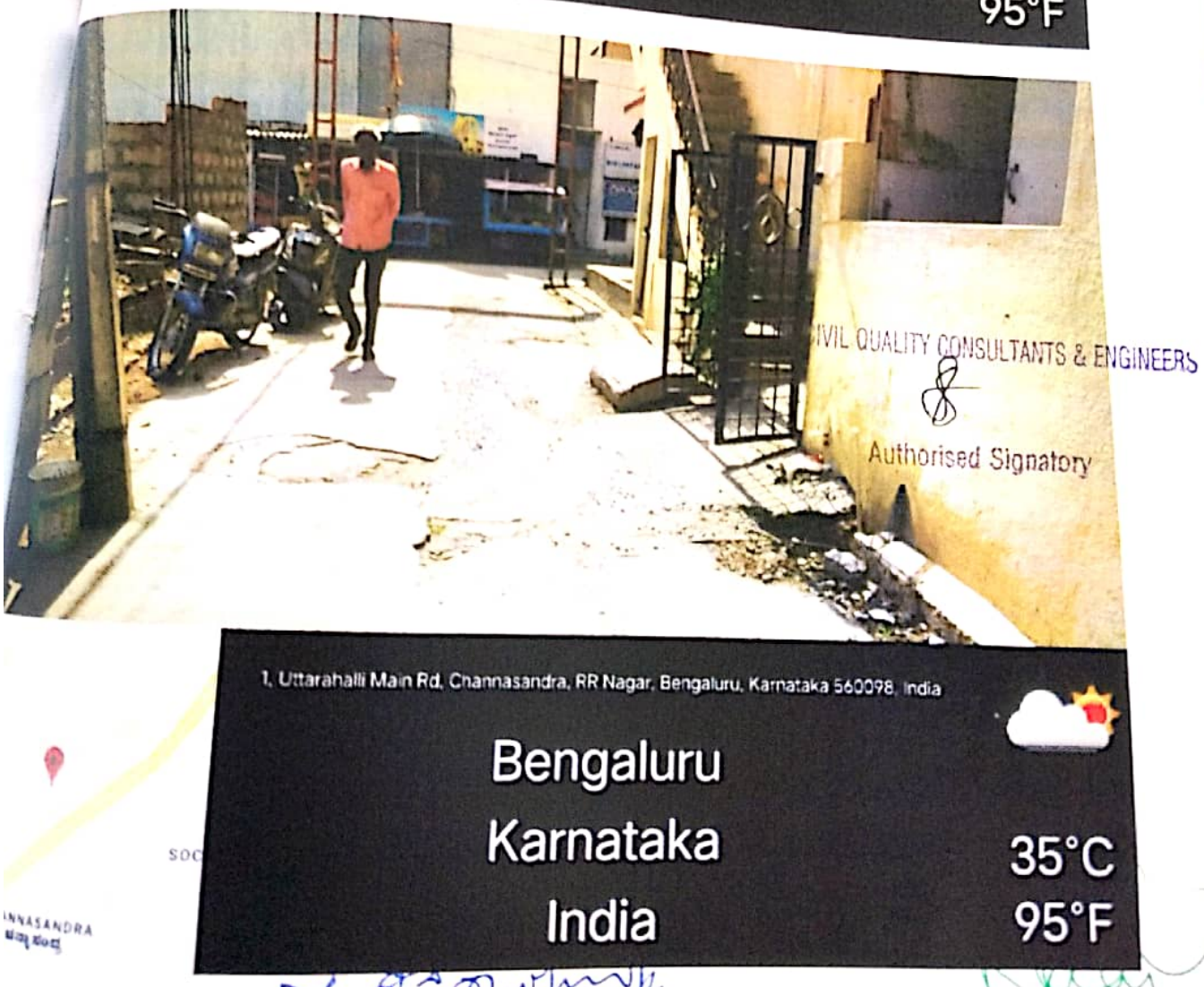

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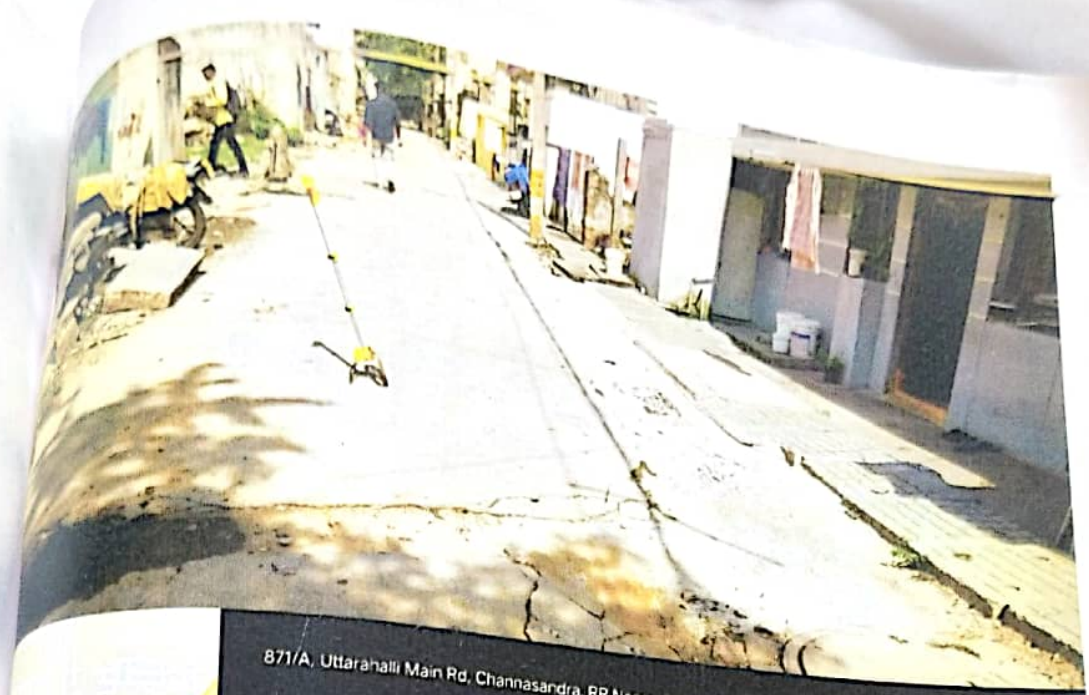

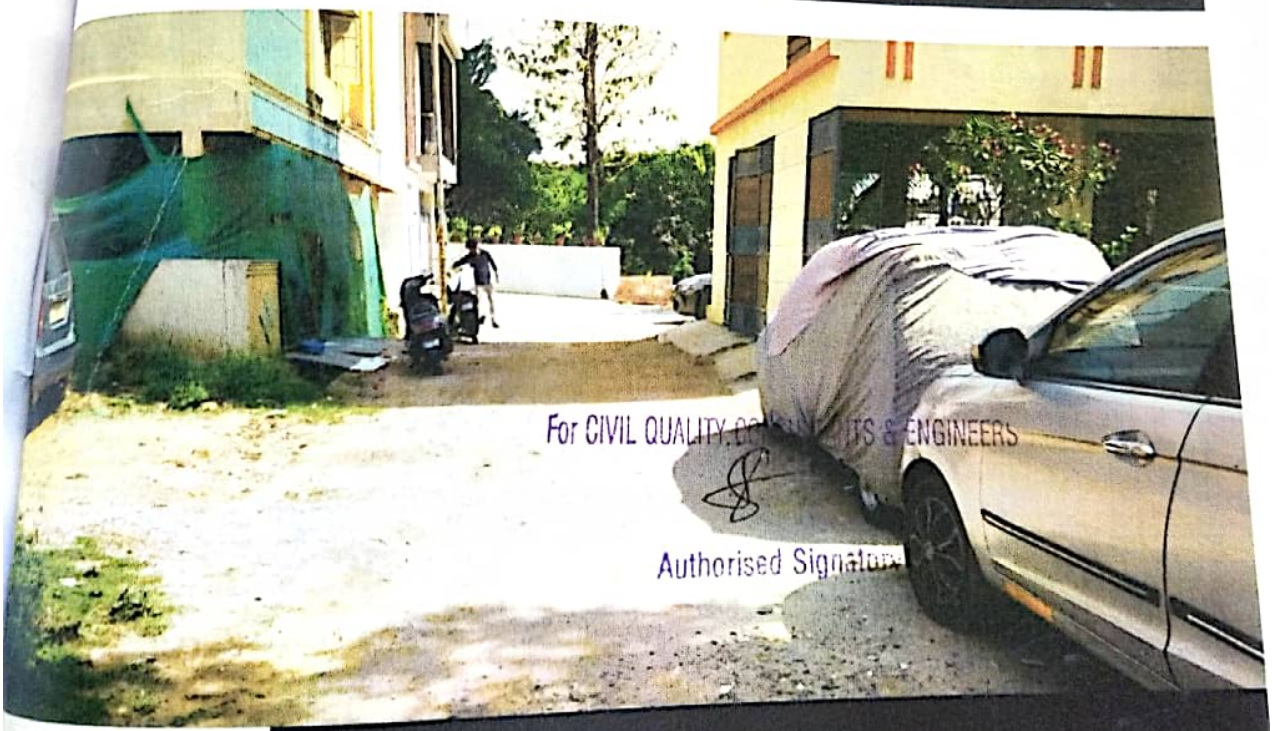

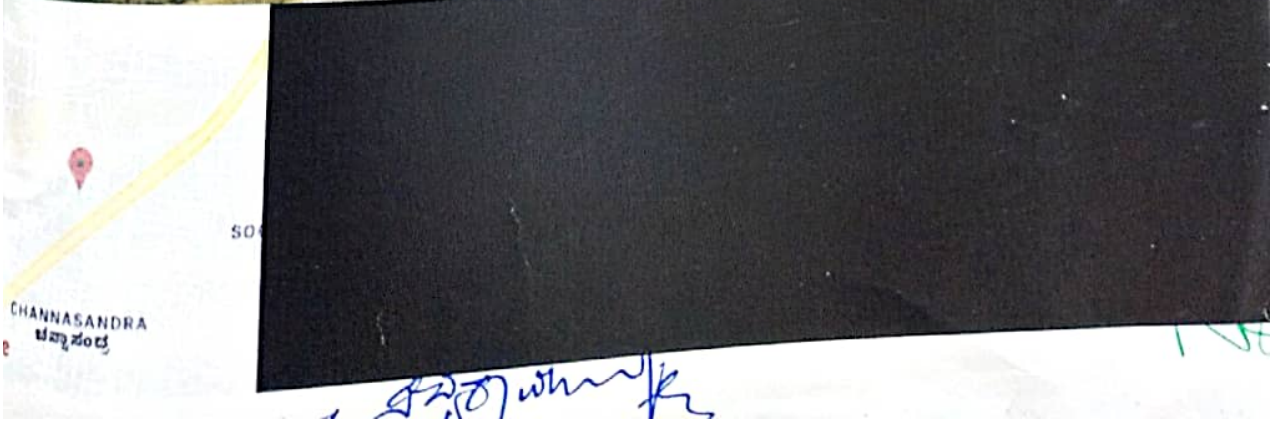

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